

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Callie Shosho Examiner #: 75636 Date: 11/1/02
 Art Unit: 1714 Phone Number 305-0208 Serial Number: 09/869,444 549
 Mail Box and Bldg/Room Location: C83-5D21 Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Pigment Composition Containing ATRP Polymers

Inventors (please provide full names): Clemens Auschra, Andreas Muhlebach,
Ernst Eckstein

Earliest Priority Filing Date: 12/31/98

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Can you please find composition containing block copolymer of claim 1?

→ Claim 12 gives more specific examples for A and B
 → X is typically halogen (chlorine or bromine) but can be replaced in subsequent step by
 TEMPO - (2,2,6,6-tetramethylpiperidyl-1-oxide)

→ The copolymers are polymerized using ATRP or Atom Transfer Radical Polymerization

Thanks

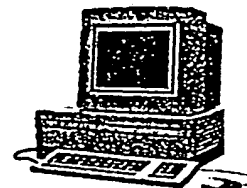
STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>K. Fuller</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>2</u>	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr. Link _____
Date Completed: <u>11/8/02</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>30</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>48</u>	Other _____	Other (specify) _____

EIC1700

Search Results

Feedback Form (Optional)



Scientific & Technical Information Center

The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the EIC searcher* who conducted the search *or contact*:

Kathleen Fuller, Team Leader, 308-4290, CP3/4 3D62

Voluntary Results Feedback Form

➤ *I am an examiner in Workgroup:* *Example:*

➤ *Relevant prior art found, search results used as follows:*

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ *Relevant prior art not found:*

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Search results were not useful in determining patentability or understanding the invention.

Other Comments:

Drop off completed forms in CP3/4 - 3D62 .

=> FILE REG

FILE 'REGISTRY' ENTERED AT 11:42:36 ON 08 NOV 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2002 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 NOV 2002 HIGHEST RN 471842-29-2

DICTIONARY FILE UPDATES: 7 NOV 2002 HIGHEST RN 471842-29-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> FILE HCAPLUS

FILE 'HCAPLUS' ENTERED AT 11:42:40 ON 08 NOV 2002

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS).

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 8 Nov 2002 VOL 137 ISS 20

FILE LAST UPDATED: 7 Nov 2002 (20021107/ED)

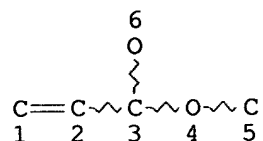
This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> D QUE

L5

STR /



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE

L6

STR 2

O~Ak~G2
@7 8 9
$$\begin{array}{c}
 6 \\
 | \\
 O \\
 | \\
 C=C \sim C \sim G1 \\
 1 \quad 2 \quad 3 \quad 4
 \end{array}$$

VAR G1=N/7

VAR G2=OH/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMB

NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE

L8

SCR 2043

L10

95613 SEA FILE=REGI

L11

99 SEA FILE=HCAPL

POLYMERI?)

L12

3 SEA FILE=HCAPL

L14

62951 SEA FILE=HCAPL

L15

23848 SEA FILE=HCAPL

L16

1398 SEA FILE=HCAPL

L17

413 SEA FILE=HCAPL

L18

234 SEA FILE=HCAPL

L19

30 SEA FILE=HCAPL

L20

1828 SEA FILE=HCAPL

L21

51 SEA FILE=HCAPL

L22

79 SEA FILE=HCAPL

L23

55 SEA FILE=HCAPL

=> D L23 ALL 1-55 HITSTR

L23 ANSWER 1 OF 55 HCAPLUS COPYRI

AN 2002:792267 HCAPLUS

DN 137:296342

TI Manufacture of dispersants and pi
them with good flowability and di

IN Endo, Atsushi

PA Toyo Ink MFG. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

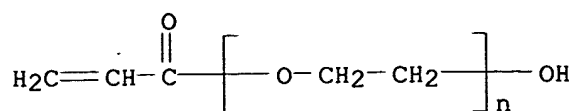
IC ICM C07C229-12

ICS B01F017-42; C09B067-20

CC 42-12 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002302474	A2	20021018	JP 2001-102771	20010402
AB	The dispersants are manufd. by reaction of H ₂ C:CR ₁ CO ₂ (R ₂)nR ₃ [R ₁ = H, Me; R ₂ = C ₂ -4 alkylene; R ₃ = H, C ₁ -9 alkyl, (un)substituted Ph; n = 2-50] with polyalkylenepolyamines and polyalkyleneimines. Thus, 400 parts polypropylene glycol acrylate (Blemmer AP 400) and 60 parts ethylenediamine at room temp. for 4 h to give a compd., which (2 parts) was mixed with 20 parts copper phthalocyanine and 80 parts a varnish to give a gravure ink showing viscosity 230 cps.				
ST	polyoxyalkylene acrylate alkyleneopolyamine addn product manuf; gravure ink dispersant polyoxyalkylene polyalkyleneimine addn product; flowability dispersion stability ink				
IT	Inks (gravure; manuf. of dispersants and pigment compns. contg. them)				
IT	Dispersing agents (manuf. of dispersants and pigment compns. contg. them)				
IT	Polyoxyalkylenes, uses RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (manuf. of dispersants and pigment compns. contg. them)				
IT	107-15-3DP, Ethylenediamine, reaction products with polyoxyalkylene acrylate 111-40-0DP, Diethylenetriamine, reaction products with polyoxyalkylene acrylate 4067-16-7DP, Pentaethylenhexamine, reaction products with polyoxyalkylene acrylate 9002-98-6DP, reaction products with polyoxyalkylene acrylate 50858-51-0DP, Blemmer AP 400, reaction products with polyalkylenepolyamines or polyalkyleneimines RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (dispersant; manuf. of dispersants and pigment compns. contg. them)				
IT	26403-58-7DP, Polyethylene glycol acrylate, reaction products with polyoxyalkylene acrylate 32171-39-4DP, Polyethylene glycol methyl ether acrylate, reaction products with polyoxyalkylene acrylate 50974-47-5DP, Polyethylene glycol nonylphenyl ether acrylate, reaction products with polyoxyalkylene acrylate 51247-78-0DP, reaction products with polyoxyalkylene acrylate 469866-92-0DP, Ethyloxirane-methyloxirane copolymer monoacrylate, reaction products with polyoxyalkylene acrylate RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (manuf. of dispersants and pigment compns. contg. them)				
IT	26403-58-7DP, Polyethylene glycol acrylate, reaction products with polyoxyalkylene acrylate RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (manuf. of dispersants and pigment compns. contg. them)				
RN	26403-58-7 HCAPLUS				
CN	Poly(oxy-1,2-ethanediyl), .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxy-(9CI) (CA INDEX NAME)				



L23 ANSWER 2 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:672583 HCAPLUS

DN 137:202762

TI Storage-stable coating **compositions** containing nonaqueous dispersion resins with controlled elec. resistivity during coating

IN Sugimoto, Katsuhiko

PA Nippon Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D201-00

ICS B05D001-36; B05D007-24; B32B007-02; B32B015-08; B32B027-20;
C09D007-12

CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002249718	A2	20020906	JP 2001-48537	20010223
AB	The compn. , useful for automobile bodies or parts, comprises an org. carboxylic acid ammonium salt and a nonaq. dispersion resin, wherein elec. resistivity of the coating compn. during coating is 0.1-0.5 M.OMEGA.. Thus, a pigment paste [obtained by dispersed 13% (based on coating solids) Al flake in 50 parts styrene-Me methacrylate-4-hydroxybutyl acrylate-Et acrylate-Et methacrylate-methacrylic acid-acrylamide copolymer] was mixed with isophthalic acid-adipic acid-trimethylolpropane-neopentyl glycol-2,2-dimethyl-3-hydroxypropyl-2,2-dimethyl-3-hydroxypropionate-.epsilon.-caprolactone copolymer 10, Me methacrylate-stearyl methacrylate-2-hydroxyethyl acrylate-styrene-methacrylic acid-Et acrylate graft copolymer 10, U 20N60 (melamine resin) 30 parts and BYK ES 80 1.2% (based on coating solids) to give a coating compn. showing elec. resistivity.24 M.OMEGA. and storage stability +4.0 s.				
ST	polyester acrylic aminoplast coating elec resistivity; nonaq dispersion acrylic polymer coating storage stability				
IT	Quaternary ammonium compounds, uses RL: MOA (Modifier or additive use); USES (Uses) (Carboxylic acids; storage-stable coating compns. contg. nonaq. dispersion resins with controlled elec. resistivity during coating for)				
IT	Polyesters, uses RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acrylic-aminoplast-; storage-stable coating compns. contg. nonaq. dispersion resins with controlled elec. resistivity during coating for)				
IT	Aminoplasts RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acrylic-polyester-; storage-stable coating compns. contg. nonaq. dispersion resins with controlled elec. resistivity during coating for)				

- IT Carboxylic acids, uses
RL: MOA (Modifier or additive use); USES (Uses)
(ammonium salts; storage-stable coating **compns.** contg. nonaq.
dispersion resins with controlled elec. resistivity during coating for)
- IT Automobiles
(bodies; storage-stable coating **compns.** contg. nonaq.
dispersion resins with controlled elec. resistivity during coating for)
- IT Aminoplasts
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agents; storage-stable coating **compns.** contg.
nonaq. dispersion resins with controlled elec. resistivity during
coating)
- IT Automobiles
(parts; storage-stable coating **compns.** contg. nonaq.
dispersion resins with controlled elec. resistivity during coating for)
- IT Dispersing agents
(pigment; storage-stable coating **compns.** contg. nonaq.
dispersion resins with controlled elec. resistivity during coating for)
- IT Coating process
Crosslinking agents
(storage-stable coating **compns.** contg. nonaq. dispersion
resins with controlled elec. resistivity during coating for)
- IT Polyesters, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PREP
(Preparation); USES (Uses)
(storage-stable coating **compns.** contg. nonaq. dispersion
resins with controlled elec. resistivity during coating for)
- IT Coating materials
(storage-stable; storage-stable coating **compns.** contg. nonaq.
dispersion resins with controlled elec. resistivity during coating)
- IT 9003-08-1, U-Van 20N60
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agents; storage-stable coating **compns.** contg.
nonaq. dispersion resins with controlled elec. resistivity during
coating)
- IT 7429-90-5, Aluminum, uses
RL: MOA (Modifier or additive use); USES (Uses)
(flake; storage-stable coating **compns.** contg. nonaq.
dispersion resins with controlled elec. resistivity during coating)
- IT 369639-34-9, Acrylamide-ethyl methacrylate-ethyl
acrylate-4-hydroxybutyl methacrylate-methacrylic acid-methyl
methacrylate-styrene copolymer
RL: MOA (Modifier or additive use); USES (Uses)
(pigment dispersants; storage-stable coating **compns.**
contg. nonaq. dispersion resins with controlled elec. resistivity
during coating)
- IT 128903-34-4P, Adipic acid-epsilon.-caprolactone-isophthalic
acid-2,2-dimethyl-3-hydroxypropyl-2,2-dimethyl-3-hydroxypropionate-
neopentyl glycol-trimethylolpropane copolymer 394251-24-2P,
Ethyl acrylate-2-hydroxyethyl acrylate-methacrylic acid-methyl
methacrylate-stearyl methacrylate-styrene graft copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PREP (Preparation); USES (Uses)
(storage-stable coating **compns.** contg. nonaq. dispersion
resins with controlled elec. resistivity during coating)
- IT 22307-72-8, uses 122878-52-8, BYK ES 80
RL: MOA (Modifier or additive use); USES (Uses)
(storage-stable coating **compns.** contg. nonaq. dispersion
resins with controlled elec. resistivity during coating)
- IT 369639-34-9, Acrylamide-ethyl methacrylate-ethyl

acrylate-4-hydroxybutyl acrylate-methacrylic acid-methyl
methacrylate-styrene copolymer

RL: MOA (Modifier or additive use); USES (Uses)

(pigment dispersants; storage-stable coating compns
. contg. nonaq. dispersion resins with controlled elec. resistivity
during coating)

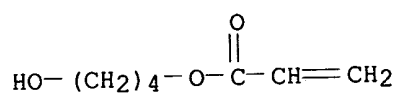
RN 369639-34-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, ethyl
2-methyl-2-propenoate, ethyl 2-propenoate, 4-hydroxybutyl 2-propenoate,
methyl 2-methyl-2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 2478-10-6

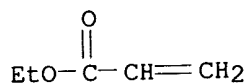
CMF C7 H12 O3



CM 2

CRN 140-88-5

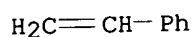
CMF C5 H8 O2



CM 3

CRN 100-42-5

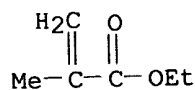
CMF C8 H8



CM 4

CRN 97-63-2

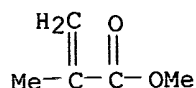
CMF C6 H10 O2



CM 5

CRN 80-62-6

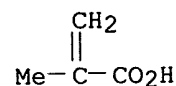
CMF C5 H8 O2



CM 6

CRN 79-41-4

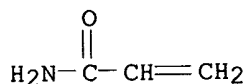
CMF C4 H6 O2



CM 7

CRN 79-06-1

CMF C3 H5 N O



IT 394251-24-2P, Ethyl acrylate-2-hydroxyethyl acrylate-methacrylic acid-methyl methacrylate-stearyl methacrylate-styrene graft copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PREP (Preparation); USES (Uses)

(storage-stable coating compns. contg. nonaq. dispersion
resins with controlled elec. resistivity during coating)

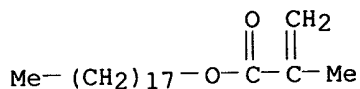
RN 394251-24-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, ethyl
2-propenoate, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate
and octadecyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

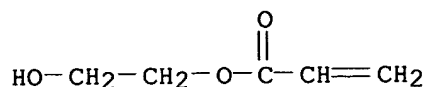
CMF C22 H42 O2



CM 2

CRN 818-61-1

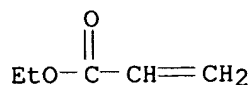
CMF C5 H8 O3



CM 3

CRN 140-88-5

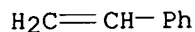
CMF C5 H8 O2



CM 4

CRN 100-42-5

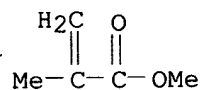
CMF C8 H8



CM 5

CRN 80-62-6

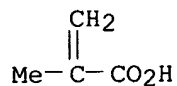
CMF C5 H8 O2



CM 6

CRN 79-41-4

CMF C4 H6 O2



L23 ANSWER 3 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:608000 HCAPLUS

DN 137:161461

TI Photosensitive red resin **composition** containing C.I. Pigment Red
209 for formation of color image and for manufacture of LCD color filter

IN Okazaki, Tetsuya; Kobayashi, Yuji; Kimura, Yoichi; Liu, Shun Lin;
Sugahara, Seiji; Yamazaki, Koji; Yokochi, Seigo

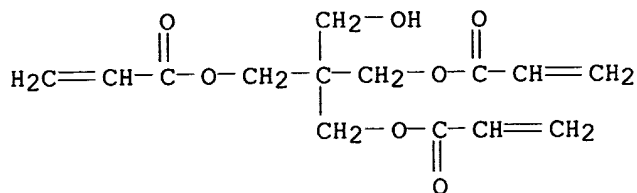
KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

PA Hitachi Chemical Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 11 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03F007-004
 ICS C08F002-44; C08F002-50; C08F291-00; C08K003-00; C08L101-00;
 G02B005-20; G03F007-033
 CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)
 Section cross-reference(s): 35, 38, 41, 73
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002229198	A2	20020814	JP 2001-27939	20010205
AB	The photosensitive red resin compn. comprises C.I.Pigment Red 209, a yellow pigment, an orange pigment dispersed in a resin. In addn., the photosensitive red resin compn. comprises a monomer having .gtoreq.1 photopolymerizable unsatd. bond and a photopolymn. initiator. The formation of a color image and the manuf. of a LCD color filter using above photosensitive red resin compn. are also claimed. The use of C.I.Pigment Red 209 in the photosensitive red resin compn. provided excellent optical transparency in red region.				
ST	photosensitive red resin compn color filter liq crystal display;				
IT	C I Pigment Red 209 photosensitive red resin compn				
IT	Liquid crystal displays				
IT	Optical filters (photosensitive red resin compn. contg. C.I.Pigment Red 209 for formation of color image and for manuf. of LCD color filter)				
IT	90-93-7 119-61-9, Benzophenone, uses RL: CAT (Catalyst use); USES (Uses) (photopolymn. initiator; photosensitive red resin compn. contg. C.I.Pigment Red 209 for formation of color image and for manuf. of LCD color filter)				
IT	27775-58-2P, Pentaerythritol triacrylate homopolymer 36446-02-3P, Trimethylolpropane triacrylate homopolymer 57592-66-2P, Pentaerythritol tetraacrylate homopolymer RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (photosensitive red resin compn. contg. C.I.Pigment Red 209 for formation of color image and for manuf. of LCD color filter)				
IT	147-14-8, C.I.Pigment Blue 15:3 3573-01-1, C.I.Pigment Red 209 4051-63-2, C.I.Pigment Red 177 14302-13-7, C.I.Pigment Green 36 30125-47-4, C.I.Pigment Yellow 138 36888-99-0, C.I.Pigment Yellow 139 84632-65-5, C.I.Pigment Red 254 215247-95-3, C.I.Pigment Violet 23 RL: TEM (Technical or engineered material use); USES (Uses) (photosensitive red resin compn. contg. C.I.Pigment Red 209 for formation of color image and for manuf. of LCD color filter)				
IT	27775-58-2P, Pentaerythritol triacrylate homopolymer RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (photosensitive red resin compn. contg. C.I.Pigment Red 209 for formation of color image and for manuf. of LCD color filter)				
RN	27775-58-2 HCAPLUS				
CN	2-Propenoic acid, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, homopolymer (9CI) (CA INDEX NAME)				

CM 1

CRN 3524-68-3
CMF C14 H18 O7



L23 ANSWER 4 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:607586 HCAPLUS

DN 137:177132

TI Recording method and apparatus using ink **composition** and its reactive solution and records formed by them

IN Miyabayashi, Toshiyuki

PA Seiko Epson Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 36 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM B41M005-00

ICS B41M005-00; B41J002-01; C09D011-00

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002225414	A2	20020814	JP 2001-20737	20010129
AB	The records such as characters, images, and designs are printed with the ink compn. and the reactive soln. on a recording material. The method or the app. comprises processes or devices for depositing the reactive soln. on the recording material, recording images by subsequently depositing the ink compn. , controlling to record the images, and processing the recording material with a polar solvent. The ink compn. contains a colorant, emulsified resin particles, a water sol. org. solvent, and water. The reactive soln. contains a reacting agent forming agglomerates when contacted with the ink compn. , cationic inorg. particles and/or cationic polymer particles, the water sol. org. solvent, and water. The method showed improved image fixability, abrasion resistance, and light stability, and can be printed on various materials such as industrial material, electronic device, food, and cloth.				
ST	ink jet printing reactive soln; cationic particle reactive soln agglomerate; resin emulsion colorant ink compn				
IT	Epoxy resins, uses Polyesters, uses Polysiloxanes, uses Polyurethanes, uses				
RL:	TEM (Technical or engineered material use); USES (Uses) (cationic, reactive soln. contg.; ink-jet printing method using ink and reactive soln.)				
IT	Ink-jet printing (ink-jet printing method using ink and reactive soln.)				

- IT Polyamides, uses
Polyolefins
RL: TEM (Technical or engineered material use); USES (Uses)
(reactive soln. contg.; ink-jet printing method using ink and reactive soln.)
- IT 1344-28-1, Aluminasol 520, uses 7631-86-9, Snowtex AK, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(colloidal, reactive soln. contg; ink-jet printing method using ink and reactive soln.)
- IT 324575-87-3P 382140-73-0P **446862-67-5P**
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(ink compn., pigment dispersed with; ink-jet printing method using ink and reactive soln.)
- IT 7439-95-4DP, Magnesium, complex with acrylic copolymer
75266-11-4DP, Acrylamide-butyl acrylate-glycidyl methacrylate-methacrylic acid-styrene copolymer, magnesium complex
277300-62-6P, Acrylamide-butyl acrylate-methacrylic acid-styrene copolymer ammonium salt **324575-80-6P 324576-24-1P**
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(ink compn.; ink-jet printing method using ink and reactive soln.)
- IT 147-14-8, C.I. PigmentBlue 15:3 980-26-7, C.I. Pigment Red 122
76199-85-4, C.I. Pigment Yellow 185
RL: TEM (Technical or engineered material use); USES (Uses)
(ink compn.; ink-jet printing method using ink and reactive soln.)
- IT **324576-03-6P**, Acrylamide-butyl acrylate-ethylene glycol dimethacrylate-heptadecafluorodecyl methacrylate-methacrylic acid-styrene copolymer ammonium salt
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(ink-jet printing method using ink and reactive soln.)
- IT 35209-54-2, Acrylic acid-styrene copolymer ammonium salt
RL: TEM (Technical or engineered material use); USES (Uses)
(ink-jet printing method using ink and reactive soln.)
- IT 9003-17-2, Polybutadiene 9003-53-6, Polystyrene 9003-55-8, Butadiene-styrene copolymer 24937-78-8, Ethylene-vinyl acetate copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(reactive soln. contg.; ink-jet printing method using ink and reactive soln.)
- IT **220170-89-8P**
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(reactive soln. contg; ink-jet printing method using ink and reactive soln.)
- IT 10377-60-3, Magnesium nitrate
RL: TEM (Technical or engineered material use); USES (Uses)
(reactive soln. contg; ink-jet printing method using ink and reactive soln.)
- IT **446862-67-5P**
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(ink compn., pigment dispersed with; ink-jet printing method using ink and reactive soln.)
- RN 446862-67-5 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, phenylmethyl
2-methyl-2-propenoate, 2-propenenitrile and .alpha.-sulfo-.omega.-[1-

[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl)
ammonium salt (9CI) (CA INDEX NAME)

CM 1

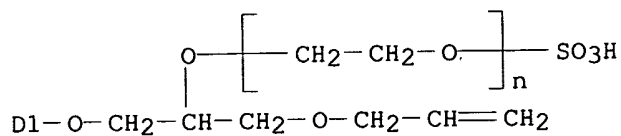
CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N

CCI IDS, PMS



D1-(CH₂)₈-Me

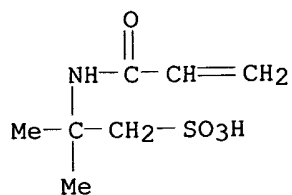


● NH₃

CM 2

CRN 15214-89-8

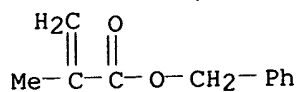
CMF C7 H13 N O4 S



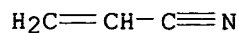
CM 3

CRN 2495-37-6

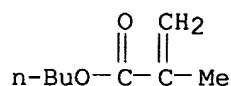
CMF C11 H12 O2



CM 4

CRN 107-13-1
CMF C3 H3 N

CM 5

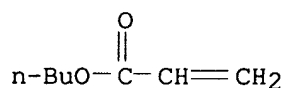
CRN 97-88-1
CMF C8 H14 O2

IT 75266-11-4DP, Acrylamide-butyl acrylate-glycidyl methacrylate-methacrylic acid-styrene copolymer, magnesium complex
277300-62-6P, Acrylamide-butyl acrylate-methacrylic acid-styrene copolymer ammonium salt 324575-80-6P 324576-24-1P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(ink compn.; ink-jet printing method using ink and reactive soln.)

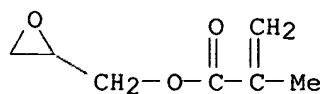
RN 75266-11-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, oxiranylmethyl 2-methyl-2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

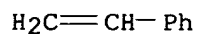
CRN 141-32-2
CMF C7 H12 O2

CM 2

CRN 106-91-2
CMF C7 H10 O3

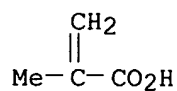
CM 3

CRN 100-42-5
CMF C8 H8



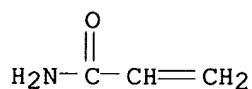
CM 4

CRN 79-41-4
CMF C4 H6 O2



CM 5

CRN 79-06-1
CMF C3 H5 N O



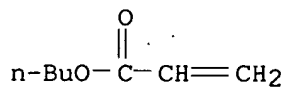
RN 277300-62-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,
ethenylbenzene and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 50658-98-5
CMF (C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

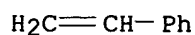
CM 2

CRN 141-32-2
CMF C7 H12 O2



CM 3

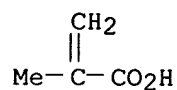
CRN 100-42-5
CMF C8 H8



CM 4

CRN 79-41-4

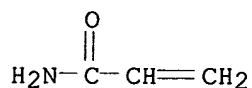
CMF C4 H6 O2



CM 5

CRN 79-06-1

CMF C3 H5 N O



RN 324575-80-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with
2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-methyl-2-propenoate,
butyl 2-propenoate, ethenylbenzene, 1,2,2,6,6-pentamethyl-4-piperidinyll
2-methyl-2-propenoate, 2-propenamide and 2-propenoic acid, ammonium salt
(9CI) (CA INDEX NAME)

CM 1

CRN 324575-79-3

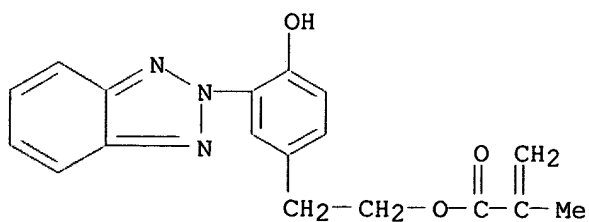
CMF (C18 H17 N3 O3 . C14 H25 N O2 . C10 H14 O4 . C8 H8 . C7 H12 O2 . C3
H5 N O . C3 H4 O2)x

CCI PMS

CM 2

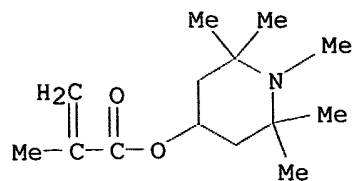
CRN 96478-09-0

CMF C18 H17 N3 O3



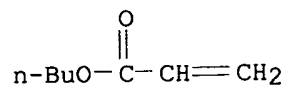
CM 3

CRN 68548-08-3
CMF C14 H25 N O2



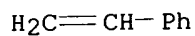
CM 4

CRN 141-32-2
CMF C7 H12 O2



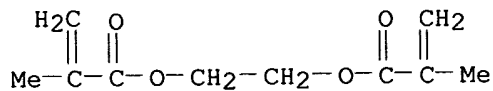
CM 5

CRN 100-42-5
CMF C8 H8



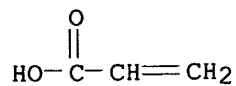
CM 6

CRN 97-90-5
CMF C10 H14 O4

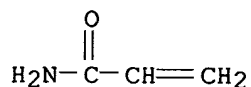


CM 7

CRN 79-10-7
CMF C3 H4 O2



CM 8

CRN 79-06-1
CMF C3 H5 N O

RN 324576-24-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, oxydi-2,1-ethanediyl ester, polymer with
1-acetyl-2-oxopropyl 2-methyl-2-propenoate, butyl 2-propenoate,
ethenylbenzene and 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic
acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-23-0

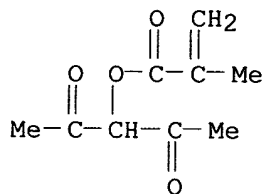
CMF (C12 H18 O5 . C9 H12 O4 . C8 H8 . C7 H13 N O4 S . C7 H12 O2)x

CCI PMS

CM 2

CRN 129955-71-1

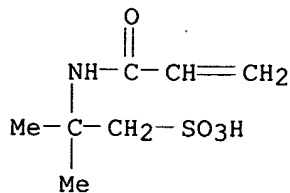
CMF C9 H12 O4



CM 3

CRN 15214-89-8

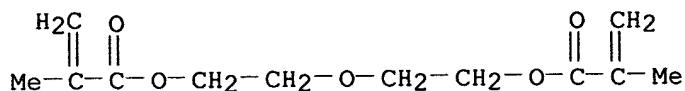
CMF C7 H13 N O4 S



CM 4

CRN 2358-84-1

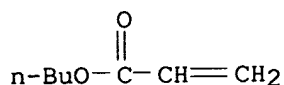
CMF C12 H18 O5



CM 5

CRN 141-32-2

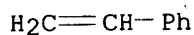
CMF C7 H12 O2



CM 6

CRN 100-42-5

CMF C8 H8



IT 324576-03-6P, Acrylamide-butyl acrylate-ethylene glycol dimethacrylate-heptadecafluorodecyl methacrylate-methacrylic acid-styrene copolymer ammonium salt

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(ink-jet printing method using ink and reactive soln.)

RN 324576-03-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl 2-methyl-2-propenoate and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-02-5

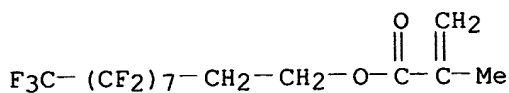
CMF (C14 H9 F17 O2 . C10 H14 O4 . C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

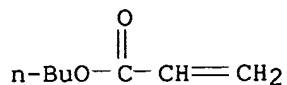
CRN 1996-88-9

CMF C14 H9 F17 O2



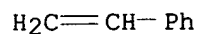
CM 3

CRN 141-32-2
CMF C7 H12 O2



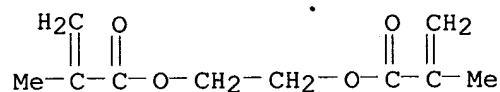
CM 4

CRN 100-42-5
CMF C8 H8



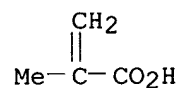
CM 5

CRN 97-90-5
CMF C10 H14 O4



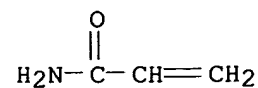
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 79-06-1
CMF C3 H5 N O



IT 220170-89-8P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

use); **PREP (Preparation)**; **USES (Uses)**
(reactive soln. contg; ink-jet printing method using ink and reactive soln.)

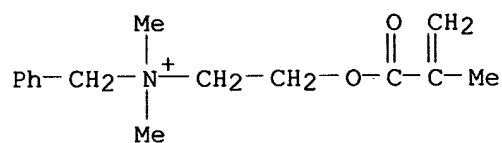
RN 220170-89-8 HCAPLUS

CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-, chloride, polymer with butyl 2-propenoate and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 46917-07-1

CMF C15 H22 N O2 . Cl

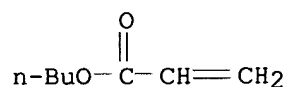


● Cl⁻

CM 2

CRN 141-32-2

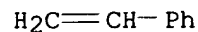
CMF C7 H12 O2



CM 3

CRN 100-42-5

CMF C8 H8



L23 ANSWER 5 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:504881 HCAPLUS

DN 137:64619

TI Manufacture of pigment dispersion containing water-based acrylic emulsion dispersants for coating **compositions**

IN Ramesh, Swaminathan; Lanza, Joann; Harris, Paul

PA Basf Corporation, USA

SO PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C09D005-00

CC 42-6 (Coatings, Inks, and Related Products)

FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002051948	A2	20020704	WO 2001-US42956	20011119
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2002132890	A1	20020919	US 2000-747472	20001222
PRAI	US 2000-747472	A	20001222		
AB	Title pigment dispersion comprises inorg. pigment and a water-based acrylic emulsion dispersant (used as a grind resin to incorporate inorg. pigment) comprising the reaction product of: (A) an ethylenically unsatd. monomer; (B) a vinylarom. hydrocarbon monomer; (C) a non-functional polyalkylene glycol acrylate or methacrylate monomer, (D) a functional polyalkylene glycol acrylate or methacrylate monomer having ahydroxyl group, and (E) an acid having a first functional acid group reactive with said hydroxylgroup, and a second functional acid group capable of providing an acid anion group. Thus, an acrylic emulsion dispersant is manufd. by polymg. Bu methacrylate, Bu acrylate, styrene, Me ether polyethylene glycol methacrylate, and polyethylene glycol methacrylate in the presence of ammonium persulfate, and then reacting with polyphosphoric acid, and finally neutralizing with dimethylethanolamine. Then, the dispersant was mixed with titanium dioxide and other additives in Pr propasol and water to give a pigment dispersion with good glossy appearance.				
ST	pigment dispersion water acrylic emulsion dispersant coating				
IT	Polyoxyalkylenes, reactions				
	RL: RCT (Reactant); RACT (Reactant or reagent) (acrylic; manuf. of pigment dispersion contg. water-based acrylic emulsion dispersants for coating compns.)				
IT	Carboxylic acids, reactions				
	RL: RCT (Reactant); RACT (Reactant or reagent) (dicarboxylic; manuf. of pigment dispersion contg. water-based acrylic emulsion dispersants for coating compns.)				
IT	Polyphosphoric acids				
	RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (esters, with polyacrylates, amine salts; manuf. of pigment dispersion contg. water-based acrylic emulsion dispersants for coating compns.)				
IT	Coating materials				
	Pigments, nonbiological (manuf. of pigment dispersion contg. water-based acrylic emulsion dispersants for coating compns.)				
IT	108-01-ODP, Dimethylethanolamine, salts with polyacrylate phosphates 439293-81-9DP, esters with polyphosphoric acids, dimethylethanolamine salts 439556-15-7DP, Butyl acrylate-butyl methacrylate-ethylene oxide-styrene graft copolymer methyl ether, esters with polyphosphoric acids, dimethylethanolamine salts RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (manuf. of pigment dispersion contg. water-based acrylic				

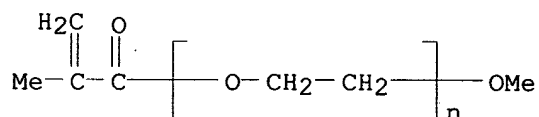
- emulsion dispersants for coating compns.)
- IT 124-68-5 7664-93-9, Sulfuric acid, reactions 7782-99-2, Sulfurous acid, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(manuf. of pigment dispersion contg. water-based acrylic emulsion dispersants for coating compns.)
- IT 13463-67-7, Titanium dioxide, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(pigment; manuf. of pigment dispersion contg. water-based acrylic emulsion dispersants for coating compns.)
- IT 30136-13-1, Propyl Propasol
RL: NUU (Other use, unclassified); USES (Uses)
(solvent; manuf. of pigment dispersion contg. water-based acrylic emulsion dispersants for coating compns.)
- IT 439293-81-9DP, esters with polyphosphoric acids, dimethylethanolamine salts
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(manuf. of pigment dispersion contg. water-based acrylic emulsion dispersants for coating compns.)
- RN 439293-81-9 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate, ethenylbenzene, .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

CCI PMS

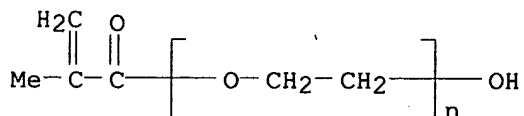


CM 2

CRN 25736-86-1

CMF (C2 H4 O)n C4 H6 O2

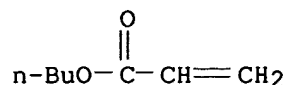
CCI PMS



CM 3

CRN 141-32-2

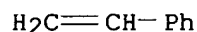
CMF C7 H12 O2



CM 4

CRN 100-42-5

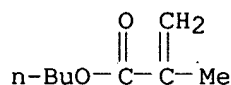
CMF C8 H8



CM 5

CRN 97-88-1

CMF C8 H14 O2



L23 ANSWER 6 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:466724 HCAPLUS

DN 137:48627

TI Water-borne coating **composition** and forming smooth multilayer coating film

IN Harakawa, Tsuyoshi; Murayama, Masaru; Seo, Shinnji; Tsuji, Naohiro

PA Japan

SO U.S. Pat. Appl. Publ., 19 pp.

CODEN: USXXCO

DT Patent

LA English

IC ICM B05D003-02

ICS B05D001-36; C08K003-00

NCL 524507000

CC 42-7 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002077410	A1	20020620	US 2001-944199	20010904
	GB 2369365	A1	20020529	GB 2001-21020	20010830
PRAI	JP 2000-265208	A	20000901		
	JP 2000-265209	A	20000901		

AB A waterborne base **compn.** comprises an emulsion resin obtained by emulsion polymn. of an .alpha.,.beta.-ethylenically unsatd. monomer mixt. or a water-sol. polyester and 0.01-20% urethane compd. additive contributing to stable viscosity and film smoothness. Thus, an aq. dispersion type acrylic resin 250.0, second water-sol. acrylic resin 32.3, luster color pigment paste C-1 66.3, Cymel 204 25.3, and Adekanol SDX-1014 (urethane, active ingredient content 30%) 1.7 parts were mixed and the mixt. was adjusted to pH 8 by adding a 10% aq. soln. of

dimethylaminoethanol to give a waterborne base coating **compn.**
The application viscosity of this waterborne base coating (a single
cylindrical rotational viscometer at 6 rpm and 25.degree.) was 1100 mPa-s.
ST pigmented base coat water thinned smoothness
IT Coconut oil
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or
engineered material use); PREP (Preparation); USES (Uses)
(alkyd resin derivs.; water-borne coating **compn.** contg.
urethane compd. forming smooth multilayer coating film with good
flip-flop property)
IT Urethanes
RL: MOA (Modifier or additive use); USES (Uses)
(water-borne coating **compn.** contg. urethane compd. forming
smooth multilayer coating film with good flip-flop property)
IT Aminoplasts
RL: TEM (Technical or engineered material use); USES (Uses)
(water-borne coating **compn.** contg. urethane compd. forming
smooth multilayer coating film with good flip-flop property)
IT 7429-90-5, Alpaste MH 8801, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(flakes; water-borne coating **compn.** contg. urethane compd.
forming smooth multilayer coating film with good flip-flop property)
IT 172929-24-7, Orga P-2
RL: TEM (Technical or engineered material use); USES (Uses)
(intermediate coating; water-borne coating **compn.** contg.
urethane compd. forming smooth multilayer coating film with good
flip-flop property)
IT 437992-86-4P
RL: IMF (Industrial manufacture); PRP (Properties); TEM
(Technical or engineered material use); PREP (Preparation); USES
(Uses)
(pigment dispersant; water-borne coating **compn.**
contg. urethane compd. forming smooth multilayer coating film with good
flip-flop property)
IT 220581-55-5, Orga TO-563 Clear
RL: TEM (Technical or engineered material use); USES (Uses)
(top coat; water-borne coating **compn.** contg. urethane compd.
forming smooth multilayer coating film with good flip-flop property)
IT 77-99-6DP, Trimethylolpropane, polymer with phthalic anhydride, adipic
acid, neopentyl glycol, dimethylolpropionic acid, and coconut oil
85-44-9DP, Phthalic anhydride, polymer with adipic acid,
trimethylolpropane, neopentyl glycol, dimethylolpropionic acid, and
coconut oil 121-91-5P, Isophthalic acid, uses 124-04-9DP, Adipic acid,
polymer with phthalic anhydride, trimethylolpropane, neopentyl glycol,
dimethylolpropionic acid, and coconut oil 126-30-7DP, Neopentyl glycol,
polymer with adipic acid, phthalic anhydride, trimethylolpropane,
dimethylolpropionic acid, and coconut oil 4767-03-7DP,
Dimethylolpropionic acid, polymer with adipic acid, phthalic anhydride,
trimethylolpropane, neopentyl glycol, and coconut oil 161487-11-2P
437992-82-0P 437992-84-2P 437992-85-3P 437992-87-5P
RL: IMF (Industrial manufacture); PRP (Properties); TEM
(Technical or engineered material use); PREP (Preparation); USES
(Uses)
(water-borne coating **compn.** contg. urethane compd. forming
smooth multilayer coating film with good flip-flop property)
IT 438195-86-9, Adekanol SDX 1014 438200-71-6, Adekanol UH 750
RL: MOA (Modifier or additive use); USES (Uses)
(water-borne coating **compn.** contg. urethane compd. forming
smooth multilayer coating film with good flip-flop property)
IT 372166-28-4, Primepol PX-1000

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(water-borne coating **compn.** contg. urethane compd. forming smooth multilayer coating film with good flip-flop property)

IT 3089-17-6, Cinquasia Magenta B-RT 343D 5521-31-3, Maroon R 6436
9003-08-1, Cymel 204 13463-67-7, Titanium dioxide, uses 261779-08-2,
Iriodin 502WII 438223-82-6, Iriodin NP Russet WII

RL: TEM (Technical or engineered material use); USES (Uses)

(water-borne coating **compn.** contg. urethane compd. forming smooth multilayer coating film with good flip-flop property)

IT 437992-86-4P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(pigment dispersant; water-borne coating **compn.**

contg. urethane compd. forming smooth multilayer coating film with good flip-flop property)

RN 437992-86-4 HCAPLUS

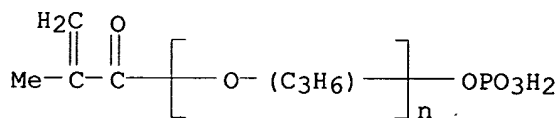
CN 2-Propenoic acid, 2-methyl-, polymer with dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-(phosphonooxy)poly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 95175-93-2

CMF (C3 H6 O)_n C4 H7 O5 P

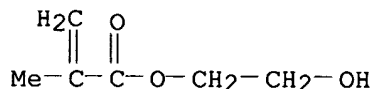
CCI IDS, PMS



CM 2

CRN 868-77-9

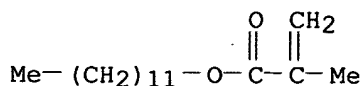
CMF C6 H10 O3



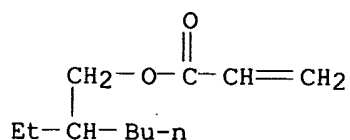
CM 3

CRN 142-90-5

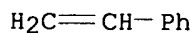
CMF C16 H30 O2



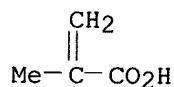
CM 4

CRN 103-11-7
CMF C11 H20 O2

CM 5

CRN 100-42-5
CMF C8 H8

CM 6

CRN 79-41-4
CMF C4 H6 O2

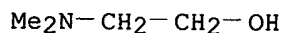
IT 161487-11-2P 437992-82-0P 437992-84-2P

RL: IMF (Industrial manufacture); PRP (Properties); TEM
(Technical or engineered material use); PREP (Preparation); USES
(Uses)(water-borne coating compn. contg. urethane compd. forming
smooth multilayer coating film with good flip-flop property)

RN 161487-11-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, ethyl
2-propenoate, 2-hydroxyethyl 2-propenoate and methyl 2-methyl-2-
propenoate, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0
CMF C4 H11 N O

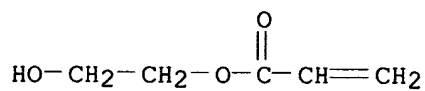
CM 2

CRN 25464-22-6

CMF (C8 H8 . C5 H8 O3 . C5 H8 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

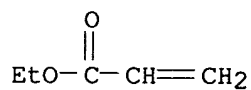
CM 3

CRN 818-61-1
CMF C5 H8 O3



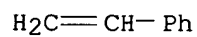
CM 4

CRN 140-88-5
CMF C5 H8 O2



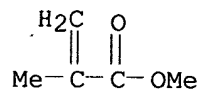
CM 5

CRN 100-42-5
CMF C8 H8



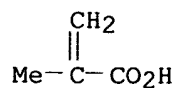
CM 6

CRN 80-62-6
CMF C5 H8 O2



CM 7

CRN 79-41-4
CMF C4 H6 O2



RN 437992-82-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, ethyl 2-propenoate, 2-hydroxyethyl 2-propenoate, methyl 2-propenoate, .alpha.-[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl), 2-propenamide and .alpha.-sulfo-.omega.-[4-nonyl-2-(1-propenyl)phenoxy]poly(oxy-1,2-ethanediyl) monoammonium salt, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0

CMF C4 H11 N O

Me₂N-CH₂-CH₂-OH

CM 2

CRN 437992-81-9

CMF (C8 H8 . C5 H8 O3 . C5 H8 O2 . C4 H6 O2 . C4 H6 O2 . C3 H5 N O . (C2 H4 O)n C21 H34 O3 . (C2 H4 O)n C18 H28 O4 S . H3 N)x

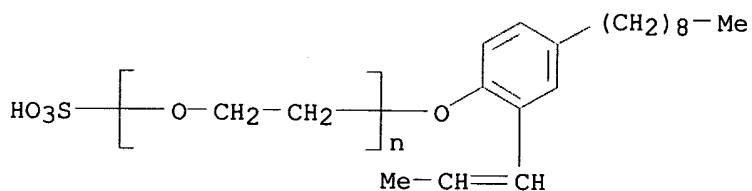
CCI PMS

CM 3

CRN 140651-97-4

CMF (C2 H4 O)n C18 H28 O4 S . H3 N

CCI PMS



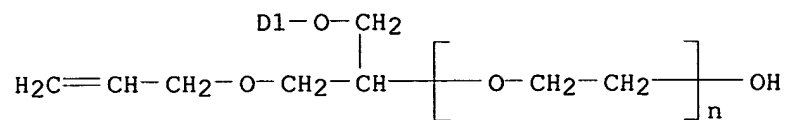
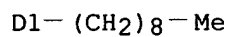
● NH₃

CM 4

CRN 111144-60-6

CMF (C2 H4 O)n C21 H34 O3

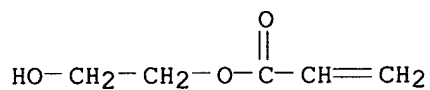
CCI IDS, PMS



CM 5

CRN 818-61-1

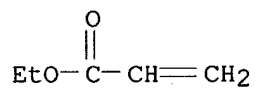
CMF C5 H8 O3



CM 6

CRN 140-88-5

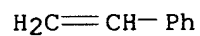
CMF C5 H8 O2



CM 7

CRN 100-42-5

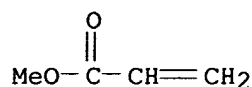
CMF C8 H8



CM 8

CRN 96-33-3

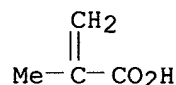
CMF C4 H6 O2



CM 9

CRN 79-41-4

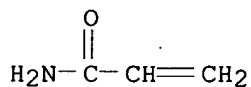
CMF C4 H6 O2



CM 10

CRN 79-06-1

CMF C3 H5 N O



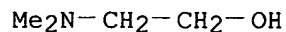
RN 437992-84-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethyl 2-propenoate, 2-hydroxyethyl 2-propenoate, methyl 2-propenoate, .alpha.-[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-propenamide and .alpha.-sulfo-.omega.-[4-nonyl-2-(1-propenyl)phenoxy]poly(oxy-1,2-ethanediyl) monoammonium salt, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0

CMF C4 H11 N O



CM 2

CRN 437992-83-1

CMF (C5 H8 O3 . C5 H8 O2 . C4 H6 O2 . C4 H6 O2 . C3 H5 N O . (C2 H4 O)n C21 H34 O3 . (C2 H4 O)n C18 H28 O4 S . H3 N)x

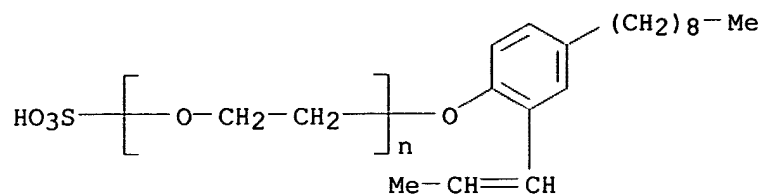
CCI PMS

CM 3

CRN 140651-97-4

CMF (C2 H4 O)n C18 H28 O4 S . H3 N

CCI PMS

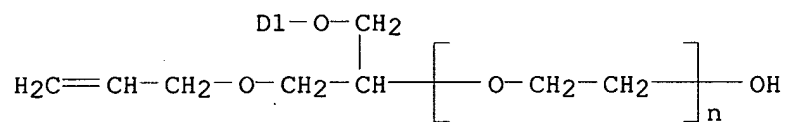
● NH₃

CM 4

CRN 111144-60-6

CMF (C2 H4 O)_n C21 H34 O3

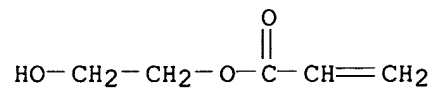
CCI IDS, PMS

D1-(CH₂)₈-Me

CM 5

CRN 818-61-1

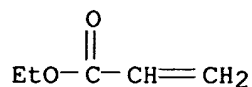
CMF C5 H8 O3



CM 6

CRN 140-88-5

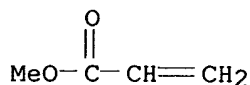
CMF C5 H8 O2



CM 7

CRN 96-33-3

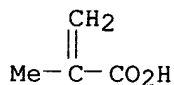
CMF C4 H6 O2



CM 8

CRN 79-41-4

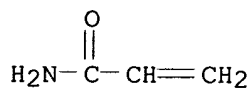
CMF C4 H6 O2



CM 9

CRN 79-06-1

CMF C3 H5 N O



L23 ANSWER 7 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:396616 HCAPLUS

DN 136:403218

TI Method for manufacturing aqueous polymer compositions for dispersing pigments and water-thinned coating compositions containing them

IN Sho, Katsuhiko; Ooiwa, Masanori

PA Nippon Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D017-00

ICS B01F017-52; C08F002-24; C08F002-38; C08F008-44; C08F290-06;
C08L055-00; C09B067-20; C09B067-46; C09C003-10; C09D005-02;
C09D171-02; C09D201-00

CC 42-6 (Coatings, Inks, and Related Products)

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002155229	A2	20020528	JP 2000-357111	20001124
AB	The method contains (A) prepg. emulsion polymer compns. with Mn .ltoreq.25,000 by emulsion polymn. of ethylenically unsatd. monomer mixts. with acid value .gtoreq.30 contg. monomers bearing poly(alkylene oxide) chains in the presence of mol.-wt. controllers and polymn. initiators and (B) neutralizing the compns. with basic neutralizing agents. Thus, a compns. contg. an emulsion, prepd. from styrene 5, 2-ethylhexyl acrylate 23, Et acrylate 26, Me methacrylate 23, Aqualon RN 10 (polyoxyethylene-contg. nonionic reactive emulsifier) 10, methacrylic acid 13, and Aqualon HS 10 (anionic reactive emulsifier) 3 parts and neutralized with dimethylethanolamine, 140, phthalocyanine blue 40, and H2O 19 parts showed org. solvent content 0% and good transparency and storage stability.				
ST	pigment dispersibility polyoxyalkylene graft polymer neutralization; water thinned coating pigment storage stability; emulsion pigment dispersion org solvent free				
IT	Polyoxyalkylenes, uses RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acrylic, graft, neutralized, pigment dispersions; pigment dispersions with good storage stability for water-thinned coatings with minimized volatile org. compds.)				
IT	Dispersing agents Pigments, nonbiological (pigment dispersions with good storage stability for water-thinned coatings with minimized volatile org. compds.)				
IT	Coating materials (storage-stable, water-thinned; pigment dispersions with good storage stability for water-thinned coatings with minimized volatile org. compds.)				
IT	79-10-7D, Acrylic acid, derivs., polymers with styrene 100-42-5D, Styrene, polymers with acrylic acid deriv. 431058-96-7, Saivinol NP 615 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (binder; pigment dispersions with good storage stability for water-thinned coatings with minimized volatile org. compds.)				
IT	430475-48-2P, Aqualon HS 10-Aqualon RN 10-ethyl acrylate-2-ethylhexyl acrylate-methacrylic acid-methyl methacrylate-styrene graft copolymer 2-dimethylaminoethanol salt 430475-50-6P, Ethyl acrylate-2-ethylhexyl acrylate-methacrylic acid-methyl methacrylate-oxirane-styrene graft copolymer 2-dimethylaminoethanol salt 430475-52-8P 430475-54-0P RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (pigment dispersions; pigment dispersions with good storage stability for water-thinned coatings with minimized volatile org. compds.)				
IT	147-14-8, Phthalocyanine blue RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (pigment dispersions; pigment dispersions with good storage stability for water-thinned coatings with minimized volatile org. compds.)				
IT	430475-52-8P 430475-54-0P RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				

(pigment dispersions; pigment dispersions with good storage stability for water-thinned coatings with minimized volatile org. compds.)

RN 430475-52-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, methyl 2-methyl-2-propenoate, .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and .alpha.-sulfo-.omega.-[4-nonyl-2-(1-propenyl)phenoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0

CMF C4 H11 N O

Me₂N-CH₂-CH₂-OH

CM 2

CRN 430475-51-7

CMF (C11 H20 O2 . C8 H8 . C5 H8 O2 . C5 H8 O2 . C4 H6 O2 . (C2 H4 O)_n C18 H28 O4 S . (C2 H4 O)_n C4 H6 O2 . H3 N)_x

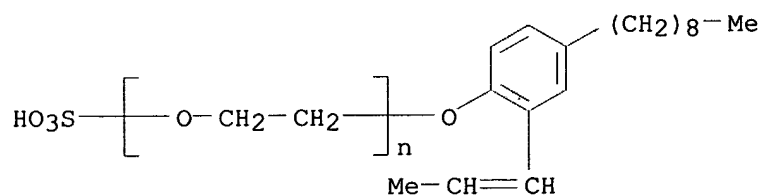
CCI PMS

CM 3

CRN 140651-97-4

CMF (C2 H4 O)_n C18 H28 O4 S . H3 N

CCI PMS



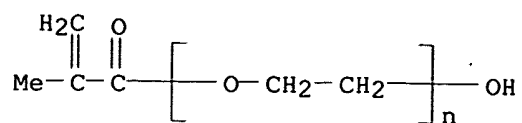
● NH₃

CM 4

CRN 25736-86-1

CMF (C2 H4 O)_n C4 H6 O2

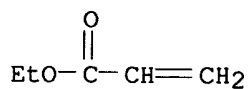
CCI PMS



CM 5

CRN 140-88-5

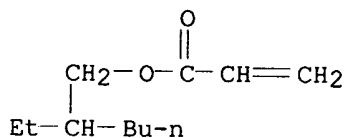
CMF C5 H8 O2



CM 6

CRN 103-11-7

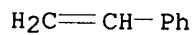
CMF C11 H20 O2



CM 7

CRN 100-42-5

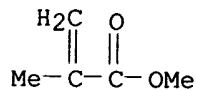
CMF C8 H8



CM 8

CRN 80-62-6

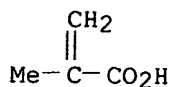
CMF C5 H8 O2



CM 9

CRN 79-41-4

CMF C4 H6 O2



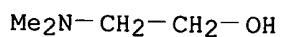
RN 430475-54-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, methyl 2-methyl-2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0

CMF C4 H11 N O



CM 2

CRN 430475-53-9

CMF (C11 H20 O2 . C8 H8 . C5 H8 O2 . C5 H8 O2 . C4 H6 O2 . (C2 H4 O)_n C4 H6 O2 . C2 H4 O)_x

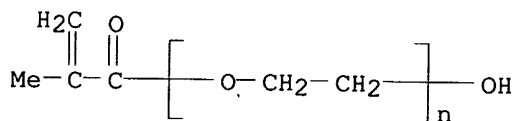
CCI PMS

CM 3

CRN 25736-86-1

CMF (C2 H4 O)_n C4 H6 O2

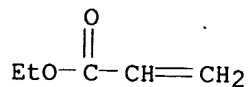
CCI PMS



CM 4

CRN 140-88-5

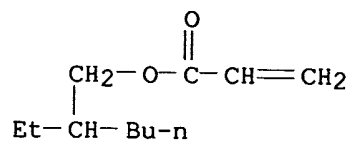
CMF C5 H8 O2



CM 5

CRN 103-11-7

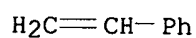
CMF C11 H20 O2



CM 6

CRN 100-42-5

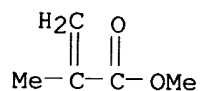
CMF C8 H8



CM 7

CRN 80-62-6

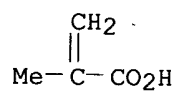
CMF C5 H8 O2



CM 8

CRN 79-41-4

CMF C4 H6 O2



CM 9

CRN 75-21-8

CMF C2 H4 O



L23 ANSWER 8 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:396583 HCAPLUS

DN 136:403224

TI Manufacture of solvent-free waterborne resin compositions as

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

pigment dispersants and paints therefrom
 IN Sho, Katsuhiko; Ooiwa, Masanori
 PA Nippon Paint Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 7 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C08F002-22
 ICS C08F002-44; C08F008-00; C08F290-06; C08K003-00; C08L055-00;
 C09D005-02; C09D017-00; C09D133-04; C09D155-00
 CC 42-7 (Coatings, Inks, and Related Products)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002155106	A2	20020528	JP 2000-357112	20001124
AB	The process comprises emulsion polymn. of ethylenically unsatd. monomer compns., consisting of poly(alkylene oxide)-bearing monomers and amino-bearing monomers and satisfying amine value .gtoreq.30, in the presence of mol.-wt. controllers and polymn. initiators to give emulsions with Mn .ltoreq.25,000 followed by neutralization with acidic neutralizers. Pigment dispersions comprising the resin compns. and VOC (volatile org. compd.)-minimized waterborne paints contg. the dispersions are also claimed. Thus, a monomer compn. of amine value 80 consisting of styrene, 2-ethylhexyl acrylate, Et acrylate, Me methacrylate, Aqualon RN 10 (decaethoxylated reactive emulsifier), dimethylaminoethyl methacrylate, and Latemul K 180 (cationic reactive emulsifier) was polymd. in the presence of dodecyl mercaptan and VA 061 [2,2'-azobis[2-(2-imidazolin-2-yl)propane]] and neutralized with AcOH to give a transparent resin compn. with Mn 7000, 140 parts of which was mixed with phthalocyanine blue 40, BYK 022 (defoaming agent) 1, and water 19 parts to give a dispersion showing av. particle size <20 .mu.m after 30-day storage at 40.degree.. A blue paint contg. the dispersion and Kanebinol KD 20 (cationic acrylic silicone) formed a glossy paint layer with cross-cut adhesion test 100/100 on a slate.				
ST	polyoxyalkylene acrylic dispersant storage stability waterborne paint; acetate neutralized acrylic polyoxyalkylene pigment dispersant; solvent free paint pigment dispersant acrylic				
IT	Polysiloxanes, uses RL: TEM (Technical or engineered material use); USES (Uses) (acrylic, Kanebinol KD 20, binders; manuf. of solvent-free acrylic polyoxyalkylene-based pigment dispersants for aq. paints)				
IT	Polyoxyalkylenes, uses RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acrylic; manuf. of solvent-free acrylic polyoxyalkylene-based pigment dispersants for aq. paints)				
IT	Polymerization (emulsion; manuf. of solvent-free acrylic polyoxyalkylene-based pigment dispersants for aq. paints)				
IT	Dispersing agents (manuf. of solvent-free acrylic polyoxyalkylene-based pigment dispersants for aq. paints)				
IT	Paints (water-thinned; manuf. of solvent-free acrylic polyoxyalkylene-based pigment dispersants for aq. paints)				
IT	431874-81-6P, Aqualon RN 10-dimethylaminoethyl methacrylate-ethyl acrylate-2-ethylhexyl acrylate-Latemul K 180-methyl methacrylate-styrene copolymer acetate RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP				

(Preparation); USES (Uses)

(manuf. of solvent-free acrylic polyoxyalkylene-based pigment dispersants for aq. paints)

IT 431874-81-6P, Aqualon RN 10-dimethylaminoethyl methacrylate-ethyl acrylate-2-ethylhexyl acrylate-Latemul K 180-methyl methacrylate-styrene copolymer acetate

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP

(Preparation); USES (Uses)

(manuf. of solvent-free acrylic polyoxyalkylene-based pigment dispersants for aq. paints)

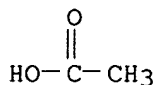
RN 431874-81-6 HCAPLUS

CN 1-Octadecanaminium, N-[2-hydroxy-3-(2-propenyloxy)propyl]-N,N-dimethyl-, chloride, polymer with 2-(dimethylamino)ethyl 2-methyl-2-propenoate, ethenylbenzene, 2-ethylhexyl 2-propenoate, ethyl 2-propenoate, methyl 2-methyl-2-propenoate and .alpha.-[4-nonyl-2-(1-propenyl)phenyl]-.omega.-hydroxypoly(oxy-1,2-ethanediyl), acetate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 64-19-7

CMF C2 H4 O2



CM 2

CRN 431874-80-5

CMF (C26 H54 N O2 . C11 H20 O2 . C8 H15 N O2 . C8 H8 . C5 H8 O2 . C5 H8 O2 . (C2 H4 O)n C18 H28 O . Cl)x

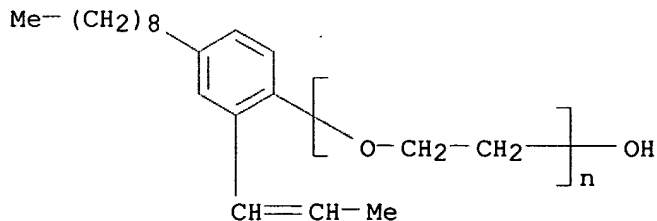
CCI PMS

CM 3

CRN 146847-27-0

CMF (C2 H4 O)n C18 H28 O

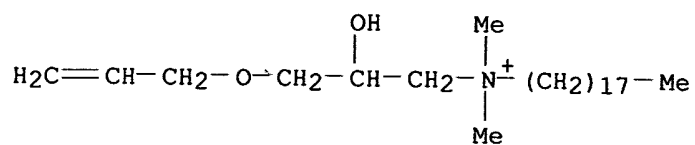
CCI PMS



CM 4

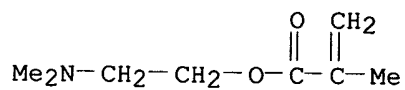
CRN 98241-54-4

CMF C26 H54 N O2 . Cl



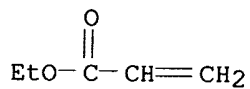
CM 5

CRN 2867-47-2
CMF C8 H15 N O2



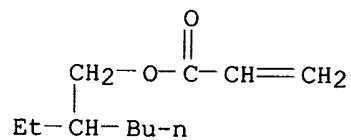
CM 6

CRN 140-88-5
CMF C5 H8 O2



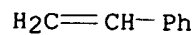
CM 7

CRN 103-11-7
CMF C11 H20 O2

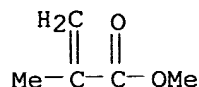


CM 8

CRN 100-42-5
CMF C8 H8



CM 9

CRN 80-62-6
CMF C5 H8 O2

L23 ANSWER 9 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:293725 HCAPLUS

DN 136:327415

TI Resins for dispersing a pigment in water-based coating
compositions and inksIN Nakajima, Yoshio; Yukawa, Yoshiyuki; Kamimori, Isao; Yamanouchi, Akihiko;
Hoshida, Yuko

PA Kansai Paint Co., Ltd., Japan

SO PCT Int. Appl., 48 pp..

CODEN: PIXXD2

DT Patent

LA Japanese

IC ICM C08F290-06

ICS C09D005-00; C09D007-12; C09D011-00; B41J002-01; B41M005-00;
C09C003-10

CC 46-4 (Surface Active Agents and Detergents)

Section cross-reference(s): 42

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002031010	A1	20020418	WO 2001-JP8972	20011012
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
PRAI	JP 2000-314381	A	20001013		
	JP 2001-82740	A	20010322		
AB	The resins comprise copolymers of a polymerizable unsatd. monomer having at least 1 ionic functional group selected among quaternary ammonium salt groups and a sulfo group, a nonionic polymerizable unsatd. monomer having a polyoxyalkylene chain, and other ethylenic monomers. Thus, adding a mixt. of styrene 10, Me methacrylate 40, Bu methacrylate 25, 2-hydroxyethyl methacrylate 10, methacrylic acid 3, 2-(methacryloyloxy)ethyltrimethylammonium chloride 7, NF Isomer PEM6E (PEG monomethacrylate) 5, AIBN 4 and i-BuOH 15 to ethylene glycol monobutyl ether 45 parts heated at 110.degree. over 3 h, maturing at 110.degree. for 30 min, adding ethylene glycol monobutyl ether 20 and AIBN 0.5 parts over 1 h and heating at 110.degree. for 1 h gave a dispersant soln. with solids content 55%. Water-based coating and ink compns. using the dispersant had good performance and freedom from agglomeration.				
ST	agglomeration redn pigment dispersion quaternary ammonium unsatd acid polymer; nonionic monomer copolymer dispersant ink coating water based compn ; polyoxyalkylene macromer copolymer dispersant water based ink coating				
IT	Polyesters, uses				
	RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)				
	(binders; resins for dispersing a pigment in water-based coating				

- compns. and inks)
- IT Aminoplasts
RL: MOA (Modifier or additive use); USES (Uses)
(curing agent; resins for dispersing a pigment in water-based coating compns. and inks)
- IT Carbon black, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(pigment, Raven 5000UIII; resins for dispersing a pigment in water-based coating compns. and inks)
- IT Dispersing agents
Pigments, nonbiological
(resins for dispersing a pigment in water-based coating compns. and inks)
- IT Coating materials
Inks
(water-thinned; resins for dispersing a pigment in water-based coating compns. and inks)
- IT 72065-17-9P 412304-20-2P 412304-28-0P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binder; resins for dispersing a pigment in water-based coating compns. and inks)
- IT 9003-08-1, Cymel 325
RL: MOA (Modifier or additive use); USES (Uses)
(curing agent; resins for dispersing a pigment in water-based coating compns. and inks)
- IT 412303-90-3P 412303-96-9P 412304-01-9P
412304-04-2P 412304-09-7P 412304-12-2P
412304-15-5P 412304-30-4P 412304-32-6P
412304-34-8P 412304-36-0P 412304-38-2P
412304-40-6P 412304-42-8P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(dispersant; resins for dispersing a pigment in water-based coating compns. and inks)
- IT 147-14-8, C.I. Pigment Blue 15:3 980-26-7, C.I. Pigment Red 122
12239-87-1, Cyanine Blue G 314 152231-97-5, MT-500HD 323179-22-2, Magenta RT-355D
RL: TEM (Technical or engineered material use); USES (Uses)
(pigment; resins for dispersing a pigment in water-based coating compns. and inks)

RE.CNT 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Ajinomoto Co Inc; JP 2000204281 A 2000 HCAPLUS
- (2) Dainippon Printing Co Ltd; JP 200095992 A 2000
- (3) Hitachi Maxell Ltd; JP 11130999 A 1999 HCAPLUS
- (4) Imperial Chemical Industries Plc; JP 06100642 A 1993 HCAPLUS
- (5) Imperial Chemical Industries Plc; CN 1077718 A 1993
- (6) Imperial Chemical Industries Plc; AT 152141 T 1993
- (7) Imperial Chemical Industries Plc; CA 2092598 A1 1993 HCAPLUS
- (8) Imperial Chemical Industries Plc; ES 2100455 T 1993 HCAPLUS
- (9) Imperial Chemical Industries Plc; JP 2113497 C 1993
- (10) Imperial Chemical Industries Plc; KR 236021 B 1993
- (11) Imperial Chemical Industries Plc; NZ 247206 A 1993
- (12) Imperial Chemical Industries Plc; AU 3705293 A 1993
- (13) Imperial Chemical Industries Plc; ZW 4293 A 1993
- (14) Imperial Chemical Industries Plc; US 5349036 A1 1993 HCAPLUS
- (15) Imperial Chemical Industries Plc; EP 567214 A1 1993 HCAPLUS
- (16) Imperial Chemical Industries Plc; DE 69310011 D 1993

- (17) Imperial Chemical Industries Plc; GB 9208535 D 1993
(18) Imperial Chemical Industries Plc; BR 9301596 A 1993 HCAPLUS
(19) Imperial Chemical Industries Plc; MX 9302274 A 1993
(20) Imperial Chemical Industries Plc; GB 9304904 D 1993
(21) Jsr Corporation; JP 20007734 A 2000
(22) Kansai Paint Co Ltd; JP 10245426 A 1998 HCAPLUS
(23) Kansai Paint Co Ltd; JP 10306236 A 1998 HCAPLUS
(24) Kansai Paint Co Ltd; DE 19809443 A 1998 HCAPLUS
(25) Kansai Paint Co Ltd; GB 2322863 A 1998 HCAPLUS
(26) Kansai Paint Co Ltd; KR 258779 B 1998
(27) Kansai Paint Co Ltd; TW 385327 B 1998 HCAPLUS
(28) Kansai Paint Co Ltd; GB 9804586 A0 1998
(29) Kao Corporation; JP 02180911 A 1990 HCAPLUS
(30) Kao Corporation; AT 124427 T 1990
(31) Kao Corporation; JP 1938376 C 1990
(32) Kao Corporation; HK 200896 A 1990
(33) Kao Corporation; ES 2076195 T 1990 HCAPLUS
(34) Kao Corporation; PH 27392 A 1990
(35) Kao Corporation; EP 372546 A2 1990 HCAPLUS
(36) Kao Corporation; US 5278269 A1 1990 HCAPLUS
(37) Kao Corporation; DE 68923253 C 1990
(38) Kao Corporation; JP 09183926 A 1998 HCAPLUS
(39) Kao Corporation; DE 19654752 A 1998 HCAPLUS
(40) Kao Corporation; US 5736606 A 1998 HCAPLUS
(41) Kawaken Fine Chemicals Co Ltd; JP 11197485 A 1999 HCAPLUS
(42) Kuraray Co Ltd; JP 09272721 A 1997 HCAPLUS
(43) Lion Corporation; JP 03239709 A 1991 HCAPLUS
(44) Mitsubishi Paper Mills Ltd; JP 978056 A 1997
(45) Nippon Paint Co Ltd; JP 2000336292 A 2000 HCAPLUS
(46) Nof Corporation; JP 09255740 A 1997 HCAPLUS
(47) Nof Corporation; EP 798320 A2 1997 HCAPLUS
(48) Osaka Toryo Kogyo Kyodo Kumiai; JP 07252395 A 1995 HCAPLUS
(49) Sanyo Chemical Industries Ltd; JP 790218 A 1995
(50) Taiho Ind Co Ltd; JP 11228897 A 1999 HCAPLUS
(51) Toyo Ink Manufacturing Co Ltd; JP 1030010 A 1998
(52) Toyo Ink Seizo K K; JP 10139999 A 1998 HCAPLUS

IT 72065-17-9P 412304-28-0P

RL: IMF (Industrial manufacture); POF (Polymer in formulation);
TEM (Technical or engineered material use); PREP (Preparation);
USES (Uses)

(binder; resins for dispersing a pigment in water-based
coating compns. and inks)

RN 72065-17-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with butyl
2-propenoate, ethenylbenzene, methyl 2-methyl-2-propenoate and 2-propenoic
acid, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0

CMF C4 H11 N O

Me₂N-CH₂-CH₂-OH

CM 2

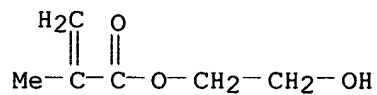
CRN 55993-98-1

CMF (C8 H8 . C7 H12 O2 . C6 H10 O3 . C5 H8 O2 . C3 H4 O2)x
CCI PMS

CM 3

CRN 868-77-9

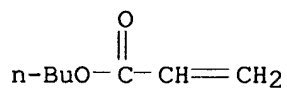
CMF C6 H10 O3



CM 4

CRN 141-32-2

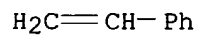
CMF C7 H12 O2



CM 5

CRN 100-42-5

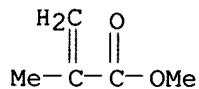
CMF C8 H8



CM 6

CRN 80-62-6

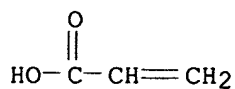
CMF C5 H8 O2



CM 7

CRN 79-10-7

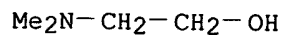
CMF C3 H4 O2



RN 412304-28-0 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,
ethenylbenzene, 2-hydroxyethyl 2-propenoate and 2-propenyl
2-methyl-2-propenoate, compd. with 2-(dimethylamino)ethanol (9CI) (CA
INDEX NAME)

CM 1

CRN 108-01-0
CMF C4 H11 N O

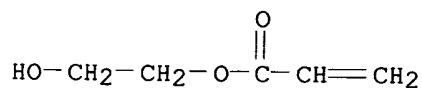


CM 2

CRN 383901-58-4
CMF (C8 H8 . C7 H12 O2 . C7 H10 O2 . C5 H8 O3 . C4 H6 O2)x
CCI PMS

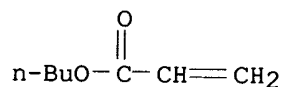
CM 3

CRN 818-61-1
CMF C5 H8 O3



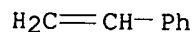
CM 4

CRN 141-32-2
CMF C7 H12 O2



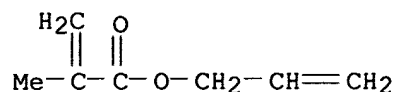
CM 5

CRN 100-42-5
CMF C8 H8



CM 6

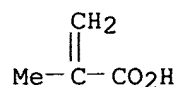
CRN 96-05-9
CMF C7 H10 O2



CM 7

CRN 79-41-4

CMF C4 H6 O2



IT 412303-90-3P 412303-96-9P 412304-01-9P
 412304-04-2P 412304-09-7P 412304-12-2P
 412304-15-5P 412304-30-4P 412304-32-6P
 412304-34-8P 412304-36-0P 412304-38-2P
 412304-40-6P 412304-42-8P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
 (dispersant; resins for dispersing a pigment in water-based coating, compns. and inks)

RN 412303-90-3 HCAPLUS

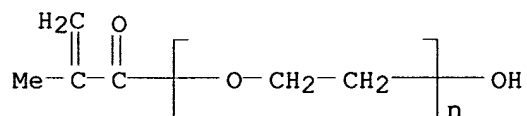
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate, .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and 2-methyl-2-propenoic acid, graft (9CI) (CA INDEX NAME)

CM 1

CRN 25736-86-1

CMF (C2 H4 O)n C4 H6 O2

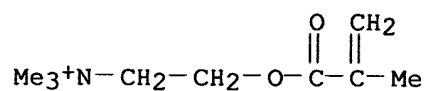
CCI PMS



CM 2

CRN 5039-78-1

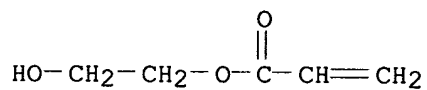
CMF C9 H18 N O2 . Cl

● Cl⁻

CM 3

CRN 818-61-1

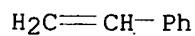
CMF C5 H8 O3



CM 4

CRN 100-42-5

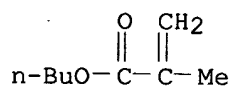
CMF C8 H8



CM 5

CRN 97-88-1

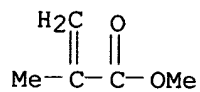
CMF C8 H14 O2



CM 6

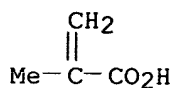
CRN 80-62-6

CMF C5 H8 O2



CM 7

CRN 79-41-4
CMF C4 H6 O2

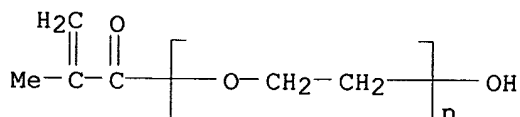


RN 412303-96-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ethenylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

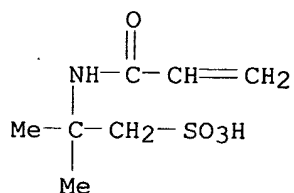
CM 1

CRN 25736-86-1
CMF (C2 H4 O)_n C4 H6 O2
CCI PMS



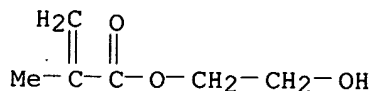
CM 2

CRN 15214-89-8
CMF C7 H13 N O4 S



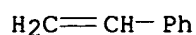
CM 3

CRN 868-77-9
CMF C6 H10 O3



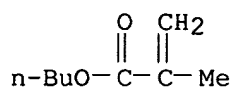
CM 4

CRN 100-42-5
CMF C8 H8



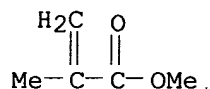
CM 5

CRN 97-88-1
CMF C8 H14 O2



CM 6

CRN 80-62-6
CMF C5 H8 O2

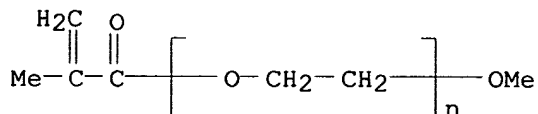


RN 412304-01-9 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

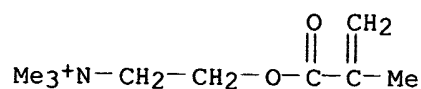
CM 1

CRN 26915-72-0
CMF (C2 H4 O)_n C5 H8 O2
CCI PMS



CM 2

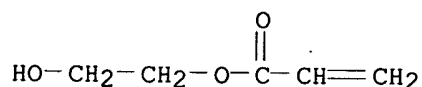
CRN 5039-78-1
CMF C9 H18 N O2 . Cl

● Cl⁻

CM 3

CRN 818-61-1

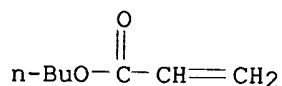
CMF C5 H8 O3



CM 4

CRN 141-32-2

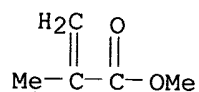
CMF C7 H12 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



RN 412304-04-2 HCAPLUS

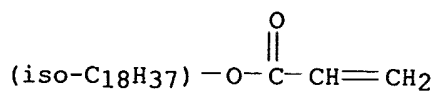
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate, isooctadecyl 2-propenoate, methyl 2-methyl-2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 93841-48-6

CMF C21 H40 O2

CCI IDS

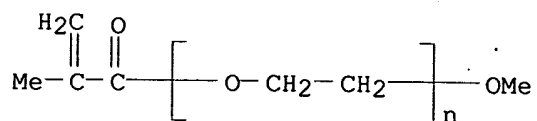


CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

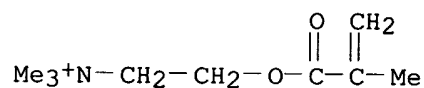
CCI PMS



CM 3

CRN 5039-78-1

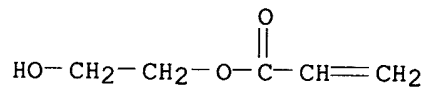
CMF C9 H18 N O2 . C1

● Cl⁻

CM 4

CRN 818-61-1

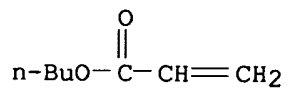
CMF C5 H8 O3



CM 5

CRN 141-32-2

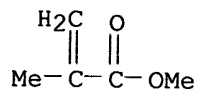
CMF C7 H12 O2



CM 6

CRN 80-62-6

CMF C5 H8 O2



RN 412304-09-7 HCAPLUS

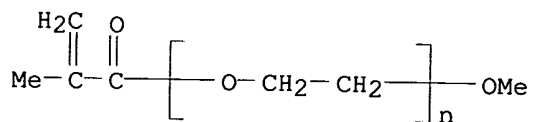
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate, 2-(dimethylamino)ethyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

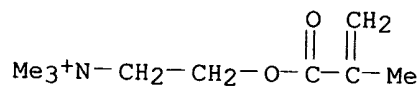
CCI PMS



CM 2

CRN 5039-78-1

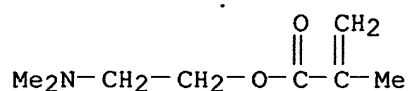
CMF C9 H18 N O2 . C1

● Cl⁻

CM 3

CRN 2867-47-2

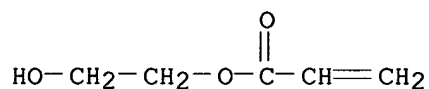
CMF C8 H15 N O2



CM 4

CRN 818-61-1

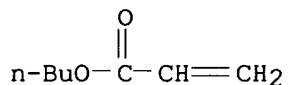
CMF C5 H8 O3



CM 5

CRN 141-32-2

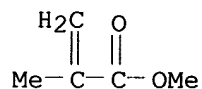
CMF C7 H12 O2



CM 6

CRN 80-62-6

CMF C5 H8 O2



RN 412304-12-2 HCAPLUS

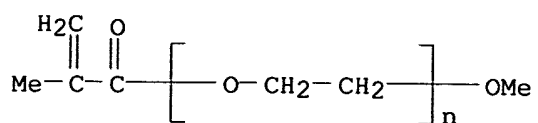
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 26915-72-0

CMF (C2 H4 O)n C5 H8 O2

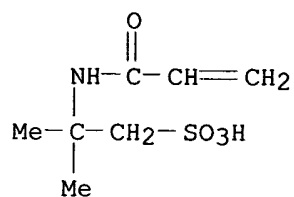
CCI PMS



CM 2

CRN 15214-89-8

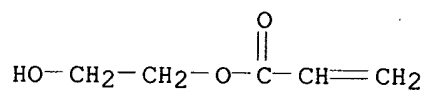
CMF C7 H13 N O4 S



CM 3

CRN 818-61-1

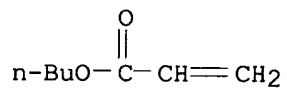
CMF C5 H8 O3



CM 4

CRN 141-32-2

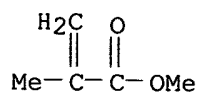
CMF C7 H12 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



RN 412304-15-5 HCAPLUS

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

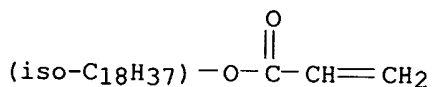
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate, isooctadecyl 2-propenoate, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 93841-48-6

CMF C21 H40 O2

CCI IDS

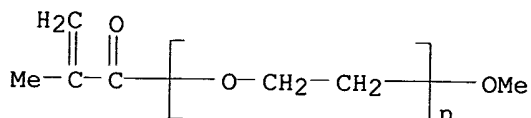


CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

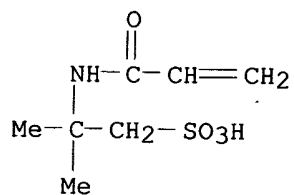
CCI PMS



CM 3

CRN 15214-89-8

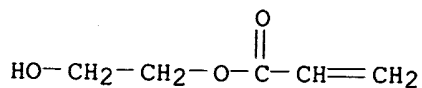
CMF C7 H13 N O4 S



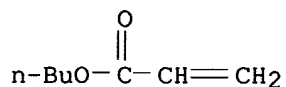
CM 4

CRN 818-61-1

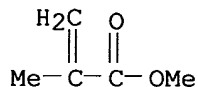
CMF C5 H8 O3



CM 5

CRN 141-32-2
CMF C7 H12 O2

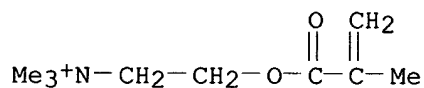
CM 6

CRN 80-62-6
CMF C5 H8 O2

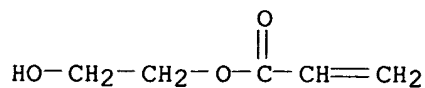
RN 412304-30-4 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-methyl-2-propenoic acid and oxirane, graft (9CI) (CA INDEX NAME)

CM 1

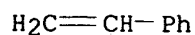
CRN 5039-78-1
CMF C9 H18 N O2 . Cl● Cl⁻

CM 2

CRN 818-61-1
CMF C5 H8 O3

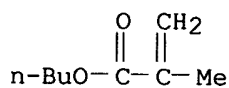
CM 3

CRN 100-42-5
CMF C8 H8



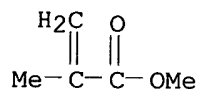
CM 4

CRN 97-88-1
CMF C8 H14 O2



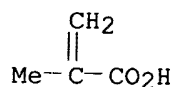
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 75-21-8
CMF C2 H4 O

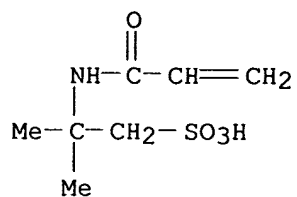


RN 412304-32-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ethenylbenzene,
2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate,
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and oxirane,
graft (9CI) (CA INDEX NAME)

CM 1

CRN 15214-89-8

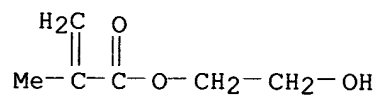
CMF C7 H13 N O4 S



CM 2

CRN 868-77-9

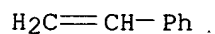
CMF C6 H10 O3



CM 3

CRN 100-42-5

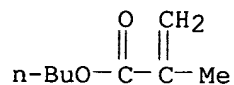
CMF C8 H8



CM 4

CRN 97-88-1

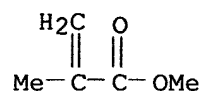
CMF C8 H14 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



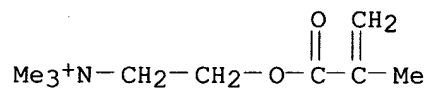
RN 412304-34-8 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate and oxirane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

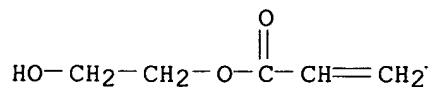
CMF C9 H18 N O2 . Cl

● Cl⁻

CM 2

CRN 818-61-1

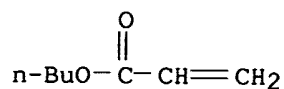
CMF C5 H8 O3



CM 3

CRN 141-32-2

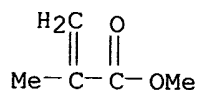
CMF C7 H12 O2



CM 4

CRN 80-62-6

CMF C5 H8 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



RN 412304-36-0 HCAPLUS

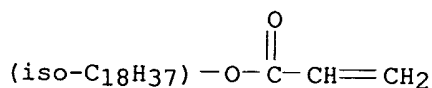
CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-, chloride, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate, isooctadecyl 2-propenoate, methyl 2-methyl-2-propenoate and oxirane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 93841-48-6

CMF C21 H40 O2

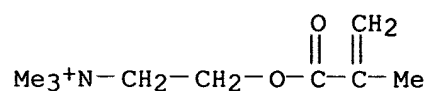
CCI IDS



CM 2

CRN 5039-78-1

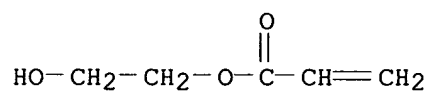
CMF C9 H18 N O2 . C1

● Cl⁻

CM 3

CRN 818-61-1

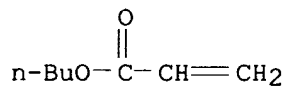
CMF C5 H8 O3



CM 4

CRN 141-32-2

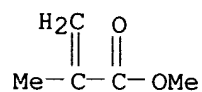
CMF C7 H12 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



RN 412304-38-2 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,

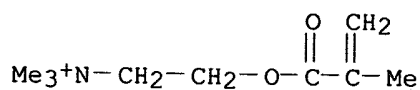
KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

chloride, polymer with butyl 2-propenoate, 2-(dimethylamino)ethyl
2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, methyl
2-methyl-2-propenoate and oxirane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 5039-78-1

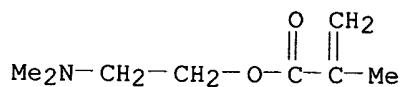
CMF C9 H18 N O2 . Cl

● Cl⁻

CM 2

CRN 2867-47-2

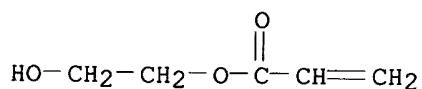
CMF C8 H15 N O2



CM 3

CRN 818-61-1

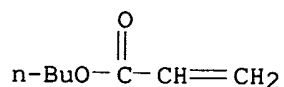
CMF C5 H8 O3



CM 4

CRN 141-32-2

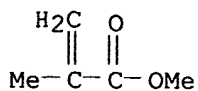
CMF C7 H12 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



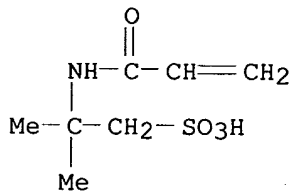
RN 412304-40-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-propenoate, 2-hydroxyethyl 2-propenoate, 2-methyl-2-[(1-oxo-2-
propenyl)amino]-1-propanesulfonic acid and oxirane, graft (9CI) (CA INDEX
NAME)

CM 1

CRN 15214-89-8

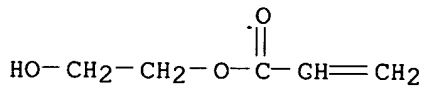
CMF C7 H13 N O4 S



CM 2

CRN 818-61-1

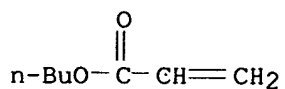
CMF C5 H8 O3



CM 3

CRN 141-32-2

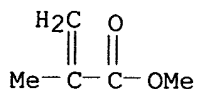
CMF C7 H12 O2



CM 4

CRN 80-62-6

CMF C5 H8 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



RN 412304-42-8 HCAPLUS

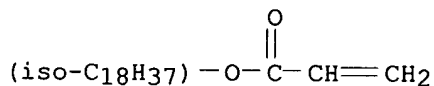
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
2-propenoate, 2-hydroxyethyl 2-propenoate, isooctadecyl 2-propenoate,
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid and oxirane,
graft (9CI) (CA INDEX NAME)

CM 1

CRN 93841-48-6

CMF C21 H40 O2

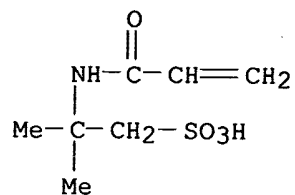
CCI IDS



CM 2

CRN 15214-89-8

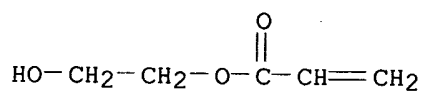
CMF C7 H13 N O4 S



CM 3

CRN 818-61-1

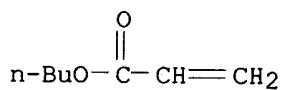
CMF C5 H8 O3



CM 4

CRN 141-32-2

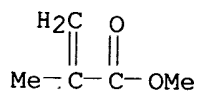
CMF C7 H12 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



DN 136:311289
 TI Acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings
 IN Visscher, Karyn B.; McIntyre, Patrick F.
 PA E.I. Du Pont De Nemours and Company, USA
 SO Eur. Pat. Appl., 12 pp.
 CODEN: EPXXDW

DT Patent

LA English

IC ICM C09D151-00

ICS C08F290-04; C08F290-06

CC 42-6 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1197536	A2	20020417	EP 2001-120557	20010829
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 2001005365	A	20020730	BR 2001-5365	20010917
	JP 2002179978	A2	20020626	JP 2001-294781	20010926
	CN 1346858	A	20020501	CN 2001-140798	20010927
PRAI	US 2000-670359	A	20000927		
AB	The graft copolymer with wt. av. mol. wt. 5000-100,000, useful as polymeric dispersant in aq. systems particularly, in exterior water-borne coatings for automobiles and trucks, comprises a hydrophobic polymeric backbone and discrete anionic and nonionic hydrophilic side chains attached to the backbone. Thus, an aq. pigment dispersant contg. an acrylic graft copolymer prepd. from Bu acrylate, acrylic acid, Me acrylate, Bu methacrylate-2-hydroxyethyl methacrylate-methacrylic acid-Me methacrylate macromonomer, poly(ethylene glycol) monomethacrylate and aminomethyl propanol 2.00 and R 706 (TiO ₂) 75.00% showed Brookfield viscosity (100 rpm) 1080 cps and drawdown gloss (20.degree.) 93.				
ST	acrylic graft copolymer pigment dispersant coating				
IT	Crosslinking agents				
	Dispersing agents				
	Pigments, nonbiological				
	(acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings)				
IT	Polyesters, uses				
	RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)				
	(acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings)				
IT	Aminoplasts				
	RL: MOA (Modifier or additive use); USES (Uses)				
	(curing agent; acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings)				
IT	Coating materials				
	(water-thinned; acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings)				
IT	13463-67-7, Ti-Pure R 706, uses				
	RL: MOA (Modifier or additive use); USES (Uses)				
	(acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings)				
IT	158765-80-1				
	RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)				
	(acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings)				
IT	80501-08-2, Allyl methacrylate-butyl acrylate-2-hydroxyethyl				

acrylate-methacrylic acid-methyl methacrylate copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(coating **compn.** contg.; acrylic graft copolymer having mixed anionic and nonionic side chains as **pigment** dispersants for water-thinned coatings)

IT 9003-08-1, Cymel 301

RL: MOA (Modifier or additive use); USES (Uses)

(curing agent; acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings)

IT 412031-44-8P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(dispersant; acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings)

IT 80501-08-2, Allyl methacrylate-butyl acrylate-2-hydroxyethyl acrylate-methacrylic acid-methyl methacrylate copolymer

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(coating **compn.** contg.; acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings)

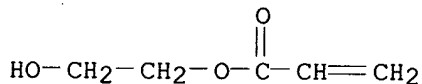
RN 80501-08-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate and 2-propenyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 818-61-1

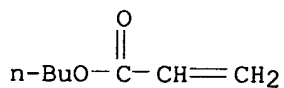
CMF C5 H8 O3



CM 2

CRN 141-32-2

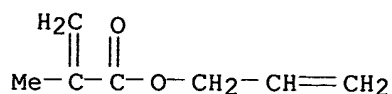
CMF C7 H12 O2



CM 3

CRN 96-05-9

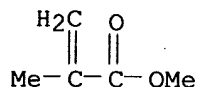
CMF C7 H10 O2



CM 4

CRN 80-62-6

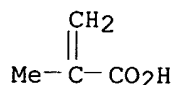
CMF C5 H8 O2



CM 5

CRN 79-41-4

CMF C4 H6 O2



IT 412031-44-8P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(dispersant; acrylic graft copolymer having mixed anionic and nonionic side chains as pigment dispersants for water-thinned coatings)

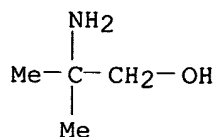
RN 412031-44-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate, .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl), methyl 2-propenoate and 2-propenoic acid, graft, compd. with 2-amino-2-methyl-1-propanol (9CI) (CA INDEX NAME)

CM 1

CRN 124-68-5

CMF C4 H11 N O



CM 2

CRN 412031-43-7

CMF (C8 H14 O2 . C7 H12 O2 . C6 H10 O3 . C5 H8 O2 . C4 H6 O2 . C4 H6 O2 .
C3 H4 O2 . (C2 H4 O)n C4 H6 O2)x

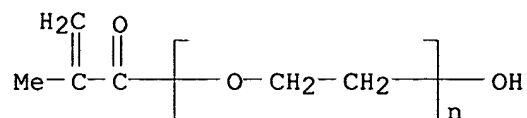
CCI PMS

CM 3

CRN 25736-86-1

CMF (C2 H4 O)n C4 H6 O2

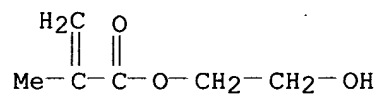
CCI PMS



CM 4

CRN 868-77-9

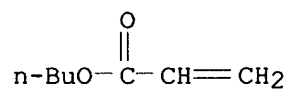
CMF C6 H10 O3



CM 5

CRN 141-32-2

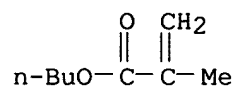
CMF C7 H12 O2



CM 6

CRN 97-88-1

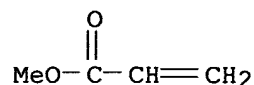
CMF C8 H14 O2



CM 7

CRN 96-33-3

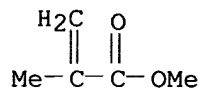
CMF C4 H6 O2



CM 8

CRN 80-62-6

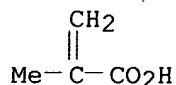
CMF C5 H8 O2



CM 9

CRN 79-41-4

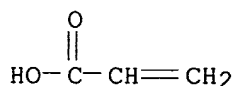
CMF C4 H6 O2



CM 10

CRN 79-10-7

CMF C3 H4 O2



L23 ANSWER 11 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:130886 HCAPLUS

DN 137:95229

TI Design of new **pigment** dispersants by controlled radical polymerization

AU Auschra, Clemens; Eckstein, Ernst; Muhlebach, Andreas; Zink, Marie-Odile; Rimo, Francois

CS Additives Division, Ciba Specialty Chemicals, Basel, CH-4002, Switz.

SO Athens Conference on Coatings: Science and Technology, Proceedings, 27th, Athens, Greece, July 2-6, 2001 (2001), 33-47 Publisher: Institute of Materials Science, New Paltz, N. Y.

CODEN: 69CGM9

DT Conference

LA English

CC 42-5 (Coatings, Inks, and Related Products)

AB Polymeric **pigment** dispersants are essential for the formulation of high solids and waterborne coatings. New technologies for controlled polymn. play an important role for the development of improved

pigment dispersants. In the last years big progress has been made esp. on nitroxide-mediated controlled free radical polymn., as well as on **atom transfer radical polymn. (ATRP)**). Both techniques overcome limitations of classical polymn. methods and provide an efficient route to functional copolymers with exact control of mol. wt. distribution and mol. architecture. New developed nitroxide polymn. regulators as well as **ATRP** were used for the synthesis of acrylic block copolymers, which are a promising class of dispersants, esp. for difficult to disperse org. **pigments**. On the example of selected **pigments**, it was investigated how structural parameters like chem. **compn.**, block length and mol. wt. influence the dispersant performance. Special attention will be given to the rheol. behavior of **pigment** concs.

ST radical polymn polymeric **pigment** dispersant waterborne coating

IT Dispersing agents

Pigments, nonbiological

Polymerization catalysts

(prepn. of new polymeric **pigment** dispersants in waterborne coatings by controlled radical polymn.)

IT Polymerization

(radical; prepn. of new polymeric **pigment** dispersants in waterborne coatings by controlled radical polymn.)

IT Coating materials

(water-thinned; prepn. of new polymeric **pigment** dispersants in waterborne coatings by controlled radical polymn.)

IT **281198-01-4P**, Butyl acrylate-dimethylaminoethyl acrylate block copolymer

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dispersants; prepn. of new polymeric **pigment** dispersants in waterborne coatings by controlled radical polymn.)

IT 264279-94-9

RL: CAT (Catalyst use); USES (Uses)

(polymn. catalyst; prepn. of new polymeric **pigment** dispersants in waterborne coatings by controlled radical polymn.)

IT 7440-50-8D, Copper, compds.

RL: CAT (Catalyst use); USES (Uses)

(prepn. of new polymeric **pigment** dispersants in waterborne coatings by controlled radical polymn.)

IT 84632-65-5P, C.I. **Pigment** Red 254

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(prepn. of new polymeric **pigment** dispersants in waterborne coatings by controlled radical polymn.)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Auschra, C; WO 0040630 2000 HCAPLUS

(2) Jakubauskas, H; J Coat Techn 1986, V58(736), P71 HCAPLUS

(3) Kramer, A; GB 2335190 2000 HCAPLUS

(4) Matyaszevski, K; US 5763548 1998 HCAPLUS

(5) Nesvadba, P; GB 2342649 2000 HCAPLUS

(6) Patton, T; Paint Flow and Pigment Dispersion 1979

(7) Schofield, J; Handbook of Coating Additives 1992, V2, P71 HCAPLUS

(8) Sogah, D; Macromolecules 1987, V20, P1473 HCAPLUS

(9) Solomon, D; US 4581429 1986 HCAPLUS

(10) van den Haak, H; J Coat Techn 1997, V69(873), P137 HCAPLUS

(11) Wu, D; Polymer Paint & Colour J 1991, V181, P532 HCAPLUS

(12) Zink, M; Macromolecules 2000, V33, P8106 HCAPLUS

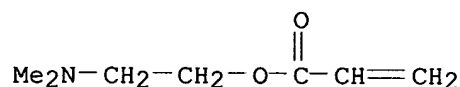
IT **281198-01-4P**, Butyl acrylate-dimethylaminoethyl acrylate block copolymer

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dispersants; prepn. of new polymeric pigment dispersants in waterborne coatings by controlled radical polymn.)

RN 281198-01-4 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, block (9CI) (CA INDEX NAME)

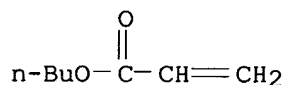
CM 1

CRN 2439-35-2
CMF C7 H13 N O2



CM 2

CRN 141-32-2
CMF C7 H12 O2



L23 ANSWER 12 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2002:113244 HCAPLUS

DN 136:175456

TI Pigment-dispersing agent, pigment dispersion containing the agent, and colored photosensitive resin composition

IN Takahashi, Hidetomo; Yoshimura, Kosaku; Takeda, Akihiko

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D017-00

ICS C08F002-44; C08F002-50; C08F008-00; C08F290-04; C08F291-00;
G02B005-20; G03F007-004; G03F007-038

CC 74-4 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002047441	A2	20020212	JP 2000-236038	20000803

AB The dispersing agent contains a graft copolymer involving a N-contg. repeating unit in the backbone and another repeating unit having .gtoreq.1 functional group selected from amide and acidic group on the grafted segments. The dispersion consists of a pigment, the dispersing agent, and an org. solvent. The colored photosensitive compn. contains the above pigment dispersion, a polyfunctional monomer contg. .gtoreq.2 ethylenic unsatd. groups, and a photopolymn. initiator optionally assocd.

with an acidic binder polymer. The photosensitive **compn.** showing good alkali-developing property is suitable for color filter in liq. crystal display device, etc.

ST pigment dispersing agent graft copolymer; amide acidic group segment grafted polymer; nitrogen repeating unit backbone graft copolymer; alkali developing property photosensitive pigment **compn**; color filter photolithog **compn** pigment dispersion

IT Polymers, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(graft; pigment-dispersing agent contg. graft copolymer for colored photosensitive resin **compn.**)

IT Solvents
(org.; pigment-dispersing agent contg. graft copolymer for dispersion contg.)

IT Polymerization catalysts
(photopolymn.; pigment-dispersing agent contg. graft copolymer for colored photosensitive resin **compn.** contg.)

IT Disperse systems
Dispersing agents
Photolithography
Pigments, nonbiological
(pigment-dispersing agent contg. graft copolymer for colored photosensitive resin **compn.**)

IT Optical filters
(pigment-dispersing agent contg. graft copolymer for colored photosensitive resin **compn.** for)

IT 65697-21-4, Benzyl methacrylate-methacrylic acid copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(binder; pigment-dispersing agent contg. graft copolymer for colored photosensitive resin **compn.**)

IT 122108-19-4
RL: CAT (Catalyst use); USES (Uses)
(photopolymn. initiator; pigment-dispersing agent contg. graft copolymer for colored photosensitive resin **compn.** contg.)

IT 396764-81-1P 396764-86-6P 396764-91-3P 396764-95-7P
396765-01-8P 396765-08-5P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(pigment-dispersing agent contg. graft copolymer for colored photosensitive resin **compn.**)

IT 147-14-8, C.I. Pigment Blue 15:6 14302-13-7, C.I. Pigment Green 36
29570-58-9, Dipentaerythritol hexaacrylate 30125-47-4, C.I. Pigment Yellow 138 84632-65-5, C.I. Pigment Red 254
RL: TEM (Technical or engineered material use); USES (Uses)
(pigment-dispersing agent contg. graft copolymer for colored photosensitive resin **compn.**)

IT 108-65-6, 1-Methoxy-2-propyl acetate
RL: NUU (Other use, unclassified); USES (Uses)
(solvent; pigment-dispersing agent contg. graft copolymer for dispersion contg.)

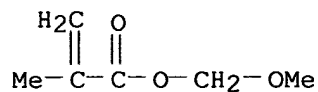
IT 396764-81-1P 396764-86-6P 396765-08-5P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(pigment-dispersing agent contg. graft copolymer for colored photosensitive resin **compn.**)

RN 396764-81-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methoxymethyl ester, polymer with N-[3-(dimethylamino)propyl]-2-propenamide and methyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

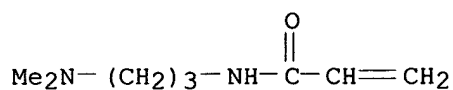
CM 1

CRN 20363-82-0
CMF C6 H10 O3



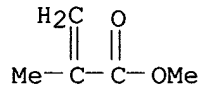
CM 2

CRN 3845-76-9
CMF C8 H16 N2 O



CM 3

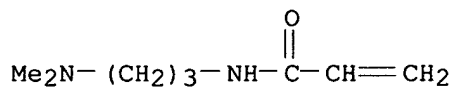
CRN 80-62-6
CMF C5 H8 O2



RN 396764-86-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with
N-[3-(dimethylamino)propyl]-2-propenamide and methyl 2-methyl-2-
propenoate, graft (9CI) (CA INDEX NAME)

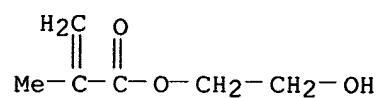
CM 1

CRN 3845-76-9
CMF C8 H16 N2 O



CM 2

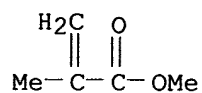
CRN 868-77-9
CMF C6 H10 O3



CM 3

CRN 80-62-6

CMF C5 H8 O2



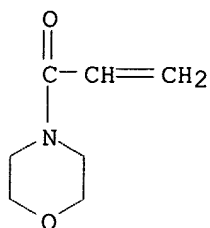
RN 396765-08-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
N-[3-(dimethylamino)propyl]-2-propenamide and 4-(1-oxo-2-
propenyl)morpholine, graft (9CI) (CA INDEX NAME)

CM 1

CRN 5117-12-4

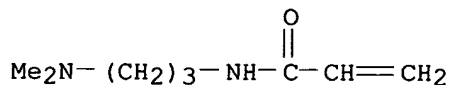
CMF C7 H11 N O2



CM 2

CRN 3845-76-9

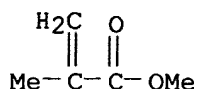
CMF C8 H16 N2 O



CM 3

CRN 80-62-6

CMF C5 H8 O2



L23 ANSWER 13 OF 55 HCAPLUS COPYRIGHT 2002 ACS
 AN 2001:798768 HCAPLUS
 DN 135:332667
 TI Waterborne paper or paperboard coating **composition** with high gloss
 IN Bobsein, Barrett Richard; Finch, William Christopher; Gleeson, David Albert
 PA USA
 SO U.S. Pat. Appl. Publ., 12 pp., Cont.-in-part of U.S. Provisional Ser. No. 193,305.
 CODEN: USXXCO
 DT Patent
 LA English
 IC C08K003-26; C08L053-00; C04B002-00
 NCL 524425000
 CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)
 Section cross-reference(s): 42
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2001036990	A1	20011101	US 2001-774064	20010131
	CA 2340862	AA	20010930	CA 2001-2340862	20010315
	EP 1138825	A1	20011004	EP 2001-302462	20010316
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	CN 1319629	A	20011031	CN 2001-111857	20010322
	BR 2001001243	A	20011106	BR 2001-1243	20010329
	JP 2001323223	A2	20011122	JP 2001-99752	20010330
PRAI	US 2000-193305P	P	20000330		
	US 2001-774064	A	20010131		
AB	A waterborne pigmented paper or paperboard coating compn. contains 50-100% Ca carbonate and 1-25% aq. polymeric dispersion including (a) 25-95 parts first emulsion polymer having an av. particle diam. 150-3000 nm and (b) 5-75 parts second emulsion polymer having an av. particle diam. 40-600 nm, where the ratio of the av. particle diam. of the first emulsion polymer to the av. particle diam. of the second emulsion polymer is 1.2-60, where at least the first emulsion polymer particles, when dry, contain .gtoreq.1void, and where the first emulsion polymer is prepd. in the presence of the second emulsion polymer or the second emulsion polymer is prepd. in the presence of the first emulsion polymer.				
ST	dispersion coating calcium carbonate emulsion binder; paper paperboard glossy dispersion coating; styrene acrylic polymer emulsion coating paper				
IT	Polymerization (emulsion; waterborne pigmented paper or paperboard coating compn.)				
IT	Coating materials (water-thinned; waterborne coating compn.)				
IT	Paper Paperboard (waterborne coating compn.)				
IT	9010-92-8P, Methacrylic acid-styrene copolymer 25085-34-1P, Acrylic acid-styrene copolymer 108313-05-9P, Methacrylic acid-methyl methacrylate-styrene graft copolymer 133481-55-7P, Acrylic				

acid-methacrylic acid-styrene graft copolymer 174898-26-1P, Acrylic acid-methacrylic acid-methyl methacrylate-styrene graft copolymer 359869-03-7P, Acrylamide-butyl acrylate-divinylbenzene-methacrylic acid-methyl acrylate-methyl methacrylate-styrene graft copolymer
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(waterborne pigmented paper or paperboard coating compn.)

IT 471-34-1, Hydrocarb HG, uses

RL: MOA (Modifier or additive use); USES (Uses)

(waterborne pigmented paper or paperboard coating compn.)

IT 359869-03-7P, Acrylamide-butyl acrylate-divinylbenzene-methacrylic acid-methyl acrylate-methyl methacrylate-styrene graft copolymer

RL: IMF (Industrial manufacture); PRP (Properties); TEM

(Technical or engineered material use); PREP (Preparation); USES (Uses)

(waterborne pigmented paper or paperboard coating compn.)

RN 359869-03-7 HCAPLUS

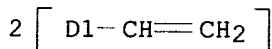
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, diethenylbenzene, ethenylbenzene, methyl 2-methyl-2-propenoate, methyl 2-propenoate and 2-propenamide, graft (9CI) (CA INDEX NAME)

CM 1

CRN 1321-74-0

CMF C10 H10

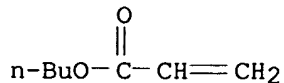
CCI IDS



CM 2

CRN 141-32-2

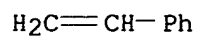
CMF C7 H12 O2



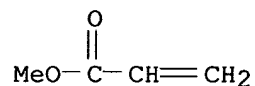
CM 3

CRN 100-42-5

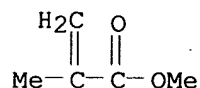
CMF C8 H8



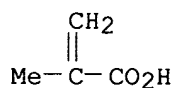
CM 4

CRN 96-33-3
CMF C4 H6 O2

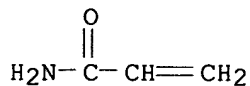
CM 5

CRN 80-62-6
CMF C5 H8 O2

CM 6

CRN 79-41-4
CMF C4 H6 O2

CM 7

CRN 79-06-1
CMF C3 H5 N O

L23 ANSWER 14 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:760058 HCAPLUS

DN 135:305337

TI Process for the preparation of pigment dispersion, pigment dispersion
obtained by the same, ink jet recording ink comprising the same, and
recording method and recording material using the same

IN Ota, Hitoshi; Komatsu, Hidehiko; Hara, Kazuhiko; Yatake, Masahiro

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

PA Seiko Epson Corporation, Japan
 SO Eur. Pat. Appl., 55 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 IC ICM C09C001-56
 ICS C09B067-04; C09B067-20; C09D011-00
 CC 42-12 (Coatings, Inks, and Related Products)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1146090	A2	20011017	EP 2001-108962	20010410
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2002020673	A2	20020123	JP 2001-108788	20010406
PRAI	JP 2000-108359	A	20000410		
	JP 2001-108788	A	20010406		
OS	MARPAT 135:305337				
AB	<p>Provided is a process for the prepn. of a pigment dispersion which comprises a pigment surface treatment step of introducing at least one hydrophilic dispersibility-providing group onto the surface of a pigment directly and/or with the interposition of a polyvalent group, and a dispersion step of dispersing a surface-treated pigment obtained at the surface treatment step in an aq. medium, characterized in that the dispersion step involves the dispersion of the surface-treated pigment in admixt. with a wetting agent and water and a resin for providing dispersibility and/or fixability is added during and/or after the dispersion step. Thus, a black ink prepd. from a dispersion comprising surface-treated carbon black pigment 8.0, Joncryl 679 8.0, Surfynol 465 1.0, triethylene glycol monobutyl ether 10.0, glycerin 15.0, 1,5-pentanediol 2.5, triethanolamine 3.0, and water to 100% gave good storage stability and good printing quality, compared to poor storage stability and poor printing quality for a similar compn. without the polymer (Joncryl 679).</p>				
ST	ink jet recording pigment polymer dispersion compn				
IT	<p>Polysiloxanes, uses RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (di-Me, ethoxylated propoxylated; process for prepn. of pigment dispersion, pigment dispersion obtained by same, ink jet recording ink comprising same, and recording method and recording material using same)</p>				
IT	<p>Inks (jet-printing; process for prepn. of pigment dispersion, pigment dispersion obtained by same, ink jet recording ink comprising same, and recording method and recording material using same)</p>				
IT	<p>Ink-jet printing Pigments, nonbiological Wetting agents (process for prepn. of pigment dispersion, pigment dispersion obtained by same, ink jet recording ink comprising same, and recording method and recording material using same)</p>				
IT	<p>Glycols, uses RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (wetting agent; process for prepn. of pigment dispersion, pigment dispersion obtained by same, ink jet recording ink comprising same, and recording method and recording material using same)</p>				
IT	<p>25085-34-1, Joncryl 679 RL: MOA (Modifier or additive use); TEM (Technical or engineered material</p>				

use); USES (Uses)

(Joncaryl 682, Joncaryl 68, Joncaryl 550, Joncaryl 586, Joncaryl B-36; process for prepn. of pigment dispersion, pigment dispersion obtained by same, ink jet recording ink comprising same, and recording method and recording material using same)

IT 195000-28-3P 367276-67-3P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(process for prepn. of pigment dispersion, pigment dispersion obtained by same, ink jet recording ink comprising same, and recording method and recording material using same)

IT 113177-31-4, Joncaryl 680 161279-62-5, Joncaryl 683

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(process for prepn. of pigment dispersion, pigment dispersion obtained by same, ink jet recording ink comprising same, and recording method and recording material using same)

IT 56-81-5, Glycerin, uses 102-71-6, Triethanolamine, uses 111-29-5, 1,5-Pentanediol 143-22-6, Triethylene glycol monobutyl ether 16005-17-7, Acetylene glycol

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(wetting agent; process for prepn. of pigment dispersion, pigment dispersion obtained by same, ink jet recording ink comprising same, and recording method and recording material using same)

IT 195000-28-3P 367276-67-3P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(process for prepn. of pigment dispersion, pigment dispersion obtained by same, ink jet recording ink comprising same, and recording method and recording material using same)

RN 195000-28-3 HCAPLUS

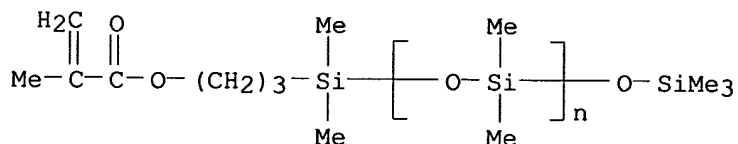
CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with .alpha.-[dimethyl[3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]silyl]-.omega.-[(trimethylsilyl)oxy]poly[oxy(dimethylsilylene)], .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy-1,2-ethanediyl] and 2-propenoic acid, graft (9CI) (CA INDEX NAME)

CM 1

CRN 123109-42-2

CMF (C2 H6 O Si)_n C12 H26 O3 Si2

CCI PMS

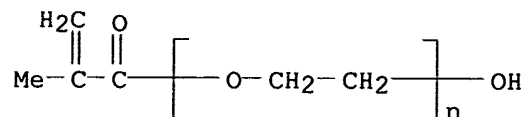


CM 2

CRN 25736-86-1

CMF (C2 H4 O)_n C4 H6 O2

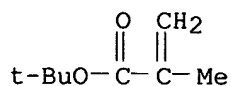
CCI PMS



CM 3

CRN 585-07-9

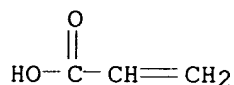
CMF C8 H14 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



RN 367276-67-3 HCAPLUS

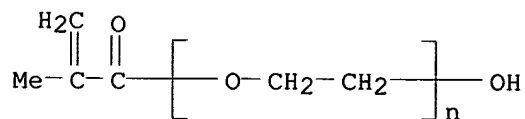
CN 2-Propenoic acid, 2-methyl-, polymer with .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl), phenylmethyl 2-methyl-2-propenoate and N-(1,1,3,3-tetramethylbutyl)-2-propenamide, graft (9CI) (CA INDEX NAME)

CM 1

CRN 25736-86-1

CMF (C2 H4 O)_n C4 H6 O2

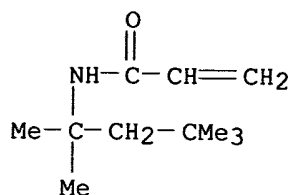
CCI PMS



CM 2

CRN 4223-03-4

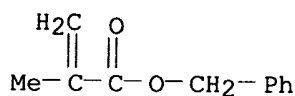
CMF C11 H21 N O



CM 3

CRN 2495-37-6

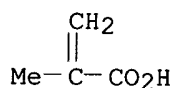
CMF C11 H12 O2



CM 4

CRN 79-41-4

CMF C4 H6 O2



L23 ANSWER 15 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:526119 HCAPLUS

DN 135:123953

TI Comb polymers prepared from ATRP macromonomers

IN Muehlebach, Andreas; Rime, Francois; Auschra, Clemens; Eckstein, Ernst

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 58 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C08F293-00

ICS C08L053-00; C08L051-00; C08F002-38; C08F004-40; C09D011-00

CC 42-12 (Coatings, Inks, and Related Products)

Section cross-reference(s): 35

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001051534	A1	20010719	WO 2001-EP53	20010104
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,				

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
EP 1254185 A1 20021106 EP 2001-909579 20010104
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRAI EP 2000-810023 A 20000111
WO 2001-EP53 W 20010104
AB Comb polymers and macromonomers based on acrylates prepd. by the
ATRP (Atom Transfer Radical Polymn.)
method having improved capability of dispersing **pigments** in the
given solvent can be used in **compns.** comprising the comb
polymers and macromonomers dispersible inorg. or org. **pigment**
particles such as inks, coating materials and be applied to any suitable
substrate, such as metal, wood plastic or ceramic materials. Thus, 5%
comb polymer having improved dispersant performance (formed by the
copolymn. of macromer acryloyl terminated poly(Bu acrylate) and
methacrylic acid) in a alkyd/melamine based coating system can improve
gloss in the final coating and give improved rheol. of the millbase.
ST comb polymer macromonomer polyacrylate; **atom transfer**
radical **polymn**; butyl acrylate methacrylic acid graft copolymer
IT **Polymerization**
(**atom transfer**, radical; comb polymers prepd. from
ATRP macromonomers)
IT Coating materials
Dispersing agents
Inks
Polymerization catalysts
(comb polymers prepd. from **ATRP** macromonomers)
IT Alkyd resins
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
(comb polymers prepd. from **ATRP** macromonomers)
IT Macromonomers
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(comb polymers prepd. from **ATRP** macromonomers)
IT Acrylic polymers, uses
Aminoplasts
Epoxy resins, uses
Polyesters, uses
Polyurethanes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(comb polymers prepd. from **ATRP** macromonomers)
IT Polymers, uses
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or
engineered material use); PREP (Preparation); USES (Uses)
(comb; comb polymers prepd. from **ATRP** macromonomers)
IT Acrylic polymers, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(styrene-contg.; comb polymers prepd. from **ATRP**
macromonomers)
IT 366-18-7, 2,2'-Bipyridyl 3030-47-5, PMDETA 5445-17-0,
Methyl-2-bromopropionate 7787-70-4, Copper bromide (CuBr) 7789-45-9,
Copper(II) bromide 17639-93-9, Methyl-2-chloropropionate 33527-91-2
RL: CAT (Catalyst use); USES (Uses)
(comb polymers prepd. from **ATRP** macromonomers)
IT 26793-34-ODP, Poly(N,N-dimethyl acrylamide), methacryloyl terminated
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(comb polymers prepd. from **ATRP** macromonomers)
IT 9003-49-ODP, Butyl acrylate homopolymer, (meth)acryloyl or Br terminated

350679-82-2P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(comb polymers prepd. from **ATRP** macromonomers)

IT 79-10-7DP, Acrylic acid, reaction products with polyacrylate 79-41-4DP, Methacrylic acid, reaction products with polyacrylate 1075-49-6DP, 4-Vinylbenzoic acid, reaction products with star-shaped polyacrylate **28574-59-6DP**, Polydimethylaminoethyl acrylate, methacryloyl terminated **281198-01-4P** 281198-05-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(comb polymers prepd. from **ATRP** macromonomers)

IT 112718-86-2P, Acrylic acid-butyl acrylate graft copolymer 116107-73-4P 150673-30-6P **350236-11-2P** **350236-12-3P**

350679-85-5P **350680-38-5P**

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(comb polymers prepd. from **ATRP** macromonomers)

IT 100-44-7, Benzylchloride, reactions 104-15-4, p-Toluene sulfonic acid, reactions 115-77-5, Pentaerythritol, reactions 563-76-8, 2-Bromopropionyl bromide 1860-26-0, Tris-2(-ethylhexylamine) 7758-89-6, Copper chloride (CuCl)

RL: RCT (Reactant); RACT (Reactant or reagent)

(comb polymers prepd. from **ATRP** macromonomers)

IT 9002-86-2, Polyvinylchloride 9003-08-1, Maprenal MF 650 24937-78-8 84632-65-5, Irgazin DPP Red BO

RL: TEM (Technical or engineered material use); USES (Uses)

(comb polymers prepd. from **ATRP** macromonomers)

IT 248603-09-0P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(coupling agent; comb polymers prepd. from **ATRP** macromonomers)

IT 9003-49-0DP, Poly(n-butyl acrylate), acryloyl terminated

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

(star shaped; comb polymers prepd. from **ATRP** macromonomers)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Atochem Elf Sa; EP 0911350 A 1999 HCAPLUS
- (2) Atochem Elf Sa; WO 0011055 A 2000 HCAPLUS
- (3) Ciba Sc Holding Ag; WO 0040630 A 2000 HCAPLUS
- (4) Du Pont; EP 0218436 A 1987 HCAPLUS
- (5) Du Pont; WO 9903938 A 1999 HCAPLUS
- (6) Matyjaszewski, K; US 5789487 A 1998 HCAPLUS
- (7) Matyjaszewski, K; US 5807937 A 1998 HCAPLUS
- (8) Rime, F; WO 0018807 A 2000 HCAPLUS
- (9) Yu, S; US 5109075 A 1992 HCAPLUS

IT **350679-82-2P**

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(comb polymers prepd. from **ATRP** macromonomers)

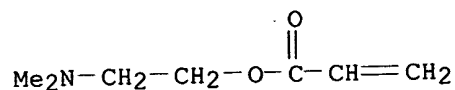
RN 350679-82-2 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl 2-propenoate, graft (9CI) (CA INDEX NAME)

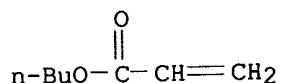
CM 1

CRN 2439-35-2

CMF C7 H13 N O2

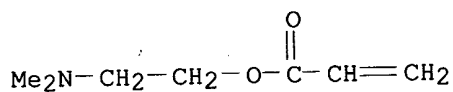


CM 2

CRN 141-32-2
CMF C7 H12 O2

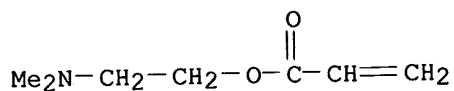
IT 28574-59-6DP, Polydimethylaminoethyl acrylate, methacryloyl
terminated 281198-01-4P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(comb polymers prepd. from ATRP macromonomers)
RN 28574-59-6 HCAPLUS
CN 2-Propenoic acid, 2-(dimethylamino)ethyl ester, homopolymer (9CI) (CA
INDEX NAME)

CM 1

CRN 2439-35-2
CMF C7 H13 N O2

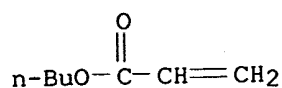
RN 281198-01-4 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl
2-propenoate, block (9CI) (CA INDEX NAME)

CM 1

CRN 2439-35-2
CMF C7 H13 N O2

CM 2

CRN 141-32-2
CMF C7 H12 O2



IT 350236-11-2P 350236-12-3P 350679-85-5P
350680-38-5P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or
engineered material use); PREP (Preparation); USES (Uses)
(comb polymers prepd. from ATRP macromonomers)

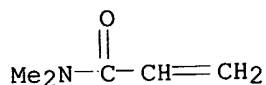
RN 350236-11-2 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with N,N-dimethyl-2-propenamide,
graft (9CI) (CA INDEX NAME)

CM 1

CRN 2680-03-7

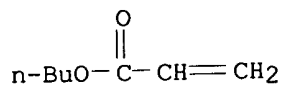
CMF C5 H9 N O



CM 2

CRN 141-32-2

CMF C7 H12 O2



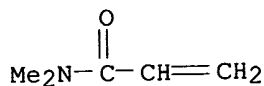
RN 350236-12-3 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl
2-propenoate and N,N-dimethyl-2-propenamide, graft (9CI) (CA INDEX NAME)

CM 1

CRN 2680-03-7

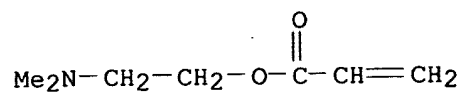
CMF C5 H9 N O



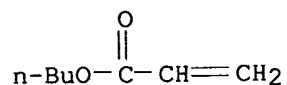
CM 2

CRN 2439-35-2

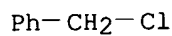
CMF C7 H13 N O2



CM 3

CRN 141-32-2
CMF C7 H12 O2RN 350679-85-5 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl
2-propenoate, graft, compd. with (chloromethyl)benzene (9CI) (CA INDEX
NAME)

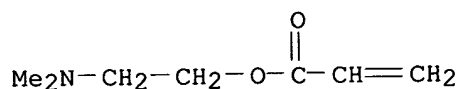
CM 1

CRN 100-44-7
CMF C7 H7 Cl

CM 2

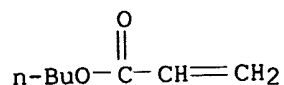
CRN 350679-82-2
CMF (C7 H13 N O2 . C7 H12 O2)x
CCI PMS

CM 3

CRN 2439-35-2
CMF C7 H13 N O2

CM 4

CRN 141-32-2
CMF C7 H12 O2



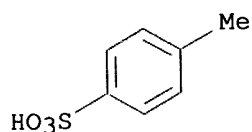
RN 350680-38-5 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl
2-propenoate, graft, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)

CM 1

CRN 104-15-4

CMF C7 H8 O3 S



CM 2

CRN 350679-82-2

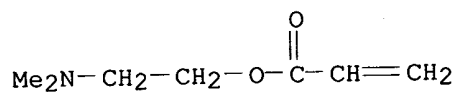
CMF (C7 H13 N O2 . C7 H12 O2)x

CCI PMS

CM 3

CRN 2439-35-2

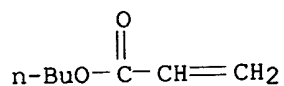
CMF C7 H13 N O2



CM 4

CRN 141-32-2

CMF C7 H12 O2



L23 ANSWER 16 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:265527 HCAPLUS

DN 134:297230

TI Pigment dispersions containing abc-block polymer dispersant

IN Kraiter, Daniel C.; Rodriguez-Douglas, Beatriz E.

PA E.I. Du Pont De Nemours and Company, USA

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

SO PCT Int. Appl., 19 pp.
CODEN: PIXXD2

DT Patent

LA English

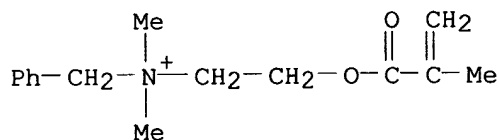
IC ICM C09D153-00

CC 42-6 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025357	A2	20010412	WO 2000-US27258	20001004
	WO 2001025357	A3	20010607		
	W: AU, BR, CA, CN, IL, JP, KR, MX, NZ				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 6413306	B1	20020702	US 1999-414255	19991007
	BR 2000014824	A	20020611	BR 2000-14824	20001004
	EP 1240255	A2	20020918	EP 2000-967285	20001004
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
PRAI	US 1999-414255	A	19991007		
	WO 2000-US27258	W	20001004		
AB	A pigment dispersion useful for forming coating compns. contg. dispersed pigment, a non-aq. carrier liq. and an ABC-block polymer dispersant (binder). The ABC block polymer has a no.-av. mol. wt. (Mn) of about 5000-20,000 and contains a polymeric A segment, a polymeric B segment and a polymeric C segment. The polymeric A segment is of polymd. monomers selected from C1-12 alkyl (meth)acrylate monomers, aryl (meth)acrylate monomers, cycloalkyl (meth)acrylate monomers or mixts. of any of the above. The polymeric B segment is of polymd. C1-4 alkylaminoalkyl (meth)acrylate monomers quaternized with an alkylating agent. The polymeric C segment is of polymd. monomers of C1-4 alkyl hydroxyalkyl (meth)acrylate and C1-12 alkyl (meth)acrylate monomers, aryl (meth)acrylate monomers or/and cycloalkyl (meth)acrylate monomers. The block polymer optionally contains polymd. monomers of glycidyl (meth)acrylate or polyalkylene glycol (meth)acrylate. The wt. ratio of pigment to binder in the dispersion is about 1/100-200/100. Thus, prepg. an ABC block copolymer having an A block derived from Bu methacrylate and Me methacrylate, a B block derived from dimethylaminoethyl methacrylate, and a C block derived from Bu methacrylate, Me methacrylate and 2-(trimethylsiloxy)ethyl methacrylate, and quaternizing the resulting block copolymer with benzyl chloride gave a dispersant for pigment dispersion prepn.				
ST	dispersant binder acrylate ester triblock copolymer manuf				
IT	Polymers, uses				
	RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (block, dispersant/binder; pigment dispersions contg. triblock acrylate polymer dispersant or binder and use in coating)				
IT	Binders				
	Coating materials				
	Dispersing agents				
	Pigments, nonbiological				
	(pigment dispersions contg. triblock acrylate polymer dispersant or binder and use in coating)				
IT	Carbon black, uses				
	RL: TEM (Technical or engineered material use); USES (Uses) (pigment; pigment dispersions contg. triblock acrylate polymer dispersant or binder and use in coating)				
IT	334474-03-2DP, desilylated product				
	RL: IMF (Industrial manufacture); MOA (Modifier or additive				

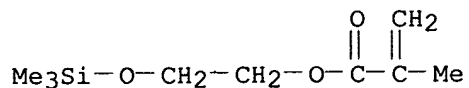
use); PRP (Properties); PREP (Preparation); USES (Uses)
 (dispersant/binder; pigment dispersions contg. triblock
 acrylate polymer dispersant or binder and use in coating)
 IT 147-14-8, Endurophthal Blue GF-BT 617D 1047-16-1, Monastral Red Y-RT
 759D 1309-37-1, Iron oxide, uses 1328-53-6, Sunfast Green 7-264-0414
 5521-31-3, Perrindo Maroon R 6436 13463-67-7, Titanium oxide, uses
 53801-77-7, Bismuth vanadate 68134-22-5, Hostaperm Yellow H 3G
 84632-65-5, Irgazin DPP Red BO
 RL: TEM (Technical or engineered material use); USES (Uses)
 (pigment; pigment dispersions contg. triblock acrylate polymer
 dispersant or binder and use in coating)
 IT 334474-03-2DP, desilylated product
 RL: IMF (Industrial manufacture); MOA (Modifier or additive
 use); PRP (Properties); PREP (Preparation); USES (Uses)
 (dispersant/binder; pigment dispersions contg. triblock
 acrylate polymer dispersant or binder and use in coating)
 RN 334474-03-2 HCAPLUS
 CN Benzenemethanaminium, N,N-dimethyl-N-[2-[(2-methyl-1-oxo-2-
 propenyl)oxy]ethyl]-, chloride, polymer with butyl 2-methyl-2-propenoate,
 methyl 2-methyl-2-propenoate and 2-[(trimethylsilyl)oxy]ethyl
 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)
 CM 1
 CRN 46917-07-1
 CMF C15 H22 N O2 . Cl



● Cl⁻

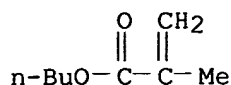
CM 2

CRN 17407-09-9
 CMF C9 H18 O3 Si



CM 3

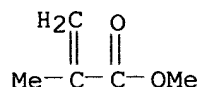
CRN 97-88-1
 CMF C8 H14 O2



CM 4

CRN 80-62-6

CMF C5 H8 O2



L23 ANSWER 17 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:220296 HCAPLUS

DN 134:267811

TI Preparation of water-thinned pigment **composition** with good dispersity

IN Suzuki, Yoshiko; Chousokabe, Hiroshi; Uno, Minoru; Itabashi, Masashi

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D017-00

ICS C08J003-03; C08J003-075; C08J003-20; C08L033-00; C09D005-00;
C09D011-00; C09D133-00

CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001081390	A2	20010327	JP 1999-264731	19990920
AB	Title process for prepn. of water-thinned pigment dispersion as good as oil-based one, comprises (A) kneading by a roller a compn. comprising pigments and a copolymer resin prepd. from two ethylene-type unsatd. monomers [contg. .gtoreq.1 (a) carboxylic and (b) hydroxyl group per mol., resp.] to obtain solid chips, and (B) dispersing the prepd. chips in aq. solvents to give the dispersion. Thus, 14. 1 parts of chips prepd. from C.I. Pigment Blue 15:1 10.0, 40% aq. acrylic acid-Bu acrylate-Et acrylate-2-hydroxyethyl methacrylate-styrene copolymer dimethylaminoethanol salt 6.0, ion-exchanged water 0.2, and Butyl Carbitol 0.2 part, were redispersed with dimethylaminoethanol 0.3, Butyl Carbitol 2.0, and ion-exchanged water 25.0 parts, 41.4 parts of which were mixed with 40% aq. Bu acrylate-Bu methacrylate-Et acrylate-4-hydroxybutyl acrylate copolymer dimethylaminoethanol salt 64.0, methylated melamine Cymel-303 12.2, and ion-exchanged water 7.4 parts to give a water-thinned paint.				
ST	water thinned acrylic polymer pigment dispersion				
IT	Dispersion (of materials) Pigments, nonbiological (prepn. of water-thinned pigment compn. with good dispersity)				
IT	Alkali metal compounds Aminoplasts RL: MOA (Modifier or additive use); USES (Uses)				

(prepn. of water-thinned pigment compn. with good dispersity)

IT Paints
(water-thinned; prepn. of water-thinned pigment compn. with good dispersity)

IT 183178-31-6P 204708-52-1P, Acrylic acid-butyl acrylate-ethyl acrylate-2-hydroxyethyl methacrylate-styrene copolymer dimethylaminoethanol salt 331649-43-5P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepn. of water-thinned pigment compn. with good dispersity)

IT 147-14-8, C.I. Pigment Blue 15:1 1047-16-1, C.I. Pigment Violet 19 1047-16-1D, derivs. 4051-63-2, C.I. Pigment Red 177 9003-08-1, Cymel-303 14302-13-7, C.I. Pigment Green 36 23912-79-0D, 5,7,12,14-Pentacenetrone, derivs. 84632-65-5, C.I. Pigment Red 254 93971-95-0 331649-52-6
RL: MOA (Modifier or additive use); USES (Uses)
(prepn. of water-thinned pigment compn. with good dispersity)

IT 183178-31-6P 204708-52-1P, Acrylic acid-butyl acrylate-ethyl acrylate-2-hydroxyethyl methacrylate-styrene copolymer dimethylaminoethanol salt 331649-43-5P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(prepn. of water-thinned pigment compn. with good dispersity)

RN 183178-31-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with butyl 2-propenoate, ethenylbenzene, ethyl 2-propenoate, methyl 2-methyl-2-propenoate and 2-propenoic acid, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0

CMF C4 H11 N O

Me₂N-CH₂-CH₂-OH

CM 2

CRN 56597-73-0

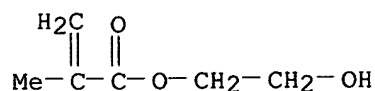
CMF (C8 H8 . C7 H12 O2 . C6 H10 O3 . C5 H8 O2 . C5 H8 O2 . C3 H4 O2)x

CCI PMS

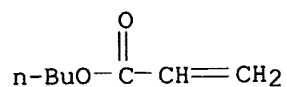
CM 3

CRN 868-77-9

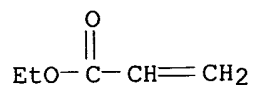
CMF C6 H10 O3



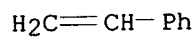
CM 4

CRN 141-32-2
CMF C7 H12 O2

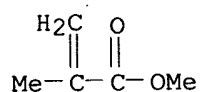
CM 5

CRN 140-88-5
CMF C5 H8 O2

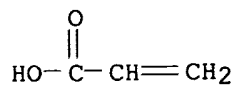
CM 6

CRN 100-42-5
CMF C8 H8

CM 7

CRN 80-62-6
CMF C5 H8 O2

CM 8

CRN 79-10-7
CMF C3 H4 O2

RN 204708-52-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with butyl

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

2-propenoate, ethenylbenzene, ethyl 2-propenoate and 2-propenoic acid,
compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0

CMF C4 H11 N O

$\text{Me}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{OH}$

CM 2

CRN 55348-76-0

CMF (C8 H8 . C7 H12 O2 . C6 H10 O3 . C5 H8 O2 . C3 H4 O2)x

CCI PMS

CM 3

CRN 868-77-9

CMF C6 H10 O3

$\begin{array}{c} \text{H}_2\text{C} \quad \text{O} \\ \parallel \quad \parallel \\ \text{Me}-\text{C}-\text{C}-\text{O}-\text{CH}_2-\text{CH}_2-\text{OH} \end{array}$

CM 4

CRN 141-32-2

CMF C7 H12 O2

$\begin{array}{c} \text{O} \\ \parallel \\ \text{n-BuO}-\text{C}-\text{CH}=\text{CH}_2 \end{array}$

CM 5

CRN 140-88-5

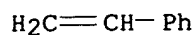
CMF C5 H8 O2

$\begin{array}{c} \text{O} \\ \parallel \\ \text{EtO}-\text{C}-\text{CH}=\text{CH}_2 \end{array}$

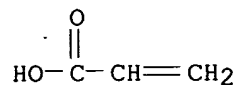
CM 6

CRN 100-42-5

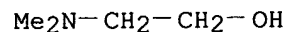
CMF C8 H8



CM 7

CRN 79-10-7
CMF C3 H4 O2RN 331649-43-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethyl 2-propenoate and 4-hydroxybutyl 2-propenoate, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

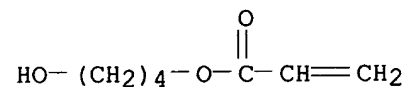
CM 1

CRN 108-01-0
CMF C4 H11 N O

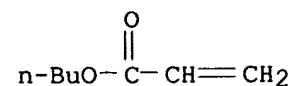
CM 2

CRN 331649-42-4
CMF (C8 H14 O2 . C7 H12 O3 . C7 H12 O2 . C5 H8 O2 . C4 H6 O2)x
CCI PMS

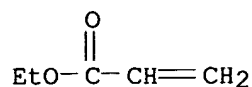
CM 3

CRN 2478-10-6
CMF C7 H12 O3

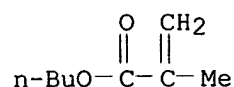
CM 4

CRN 141-32-2
CMF C7 H12 O2

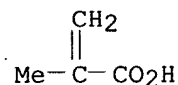
CM 5

CRN 140-88-5
CMF C5 H8 O2

CM 6

CRN 97-88-1
CMF C8 H14 O2

CM 7

CRN 79-41-4
CMF C4 H6 O2

L23 ANSWER 18 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:101050 HCAPLUS

DN 134:164625

TI Recording method comprising printing recording medium with two liquid components

IN Kubota, Kazuhide; Oyanagi, Takashi; Miyabayashi, Toshiyuki

PA Seiko Epson Corp., Japan

SO PCT Int. Appl., 137 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

IC B41M005-00; B41J003-04; C09D011-00

CC 42-12 (Coatings, Inks, and Related Products)

Section cross-reference(s): 73

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001008895	A1	20010208	WO 2000-JP5150	20000731
	W: JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1125760	A1	20010822	EP 2000-949945	20000731
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, FI

- PRAI JP 1999-217296 A 19990730
JP 2000-7135 A 20000114
JP 2000-211821 A 20000712
JP 2000-222966 A 20000724
JP 2000-224002 A 20000725
JP 2000-224141 A 20000725
WO 2000-JP5150 W 20000731
- AB Title recording method for providing a good image with excellent adhesion to a recording medium and friction-resistance comprises printing by using an ink **compn.** comprising a colorant, resin emulsion particles, a water-sol. org. solvent and water, and a reacting liq. comprising a reactant producing a coagulation upon contacting with the above ink **compn.** to adhere to a recording medium, wherein the method comprises the steps of making the reacting liq. to adhere to the recording medium, then attaching the ink **compn.** to the medium to print an image, and washing the recording medium printed with a polar solvent. Thus an ink **compn.** comprising (1) a reacting liq. contg. Mg(NO₃)₂.cntdot.6H₂O, triethylene glycol Bu monoether, glycerin, and ion exchanged water, (2) a black ink **compn.** contg. carbon black MA 7, styrene-acrylic acid copolymer, styrene-2-ethylhexyl acrylate-methacrylic acid copolymer-sodium dodecylbenzenesulfonate emulsion, glycerin, and ion exchanged water, and (3) a color ink set contg. cyan, magenta, and yellow inks was prepd. for printing test, showing good image quality and good adhesion to medium after washing and heating.
- ST styrene ethylhexyl acrylate methacrylic acid copolymer ink **compn.** printing; pigment ink **compn.** printing
- IT Carbon black, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(MA 7, pigment; prepn. and properties of printing ink **compn.** with two liq. components)
- IT Fluoropolymers, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(acrylic, ink contg.; prepn. and properties of printing ink **compn.** with two liq. components)
- IT Acrylic polymers, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(amine-contg., ink contg.; prepn. and properties of printing ink **compn.** with two liq. components)
- IT Polymers, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(complexes, ink contg.; prepn. and properties of printing ink **compn.** with two liq. components)
- IT Dispersing agents
Dispersion (of materials)
Dyes
Emulsifying agents
Emulsions
Light stabilizers
Pigments, nonbiological
Surfactants
UV stabilizers
(ink contg.; prepn. and properties of printing ink **compn.** with two liq. components)
- IT Polyamides, uses
Polyesters, uses

- Polyurethanes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(ink contg.; prepn. and properties of printing ink **compn.**
with two liq. components)
- IT Adhesion, physical
Color
Contact angle
Optical transmission
Particle size
Printing (impact)
Surface tension
(prepn. and properties of printing ink **compn.** with two liq.
components)
- IT Ceramics
(printing medium; prepn. and properties of printing ink **compn.**
with two liq. components)
- IT Metals, miscellaneous
Plastics, miscellaneous
Rubber, miscellaneous
RL: MSC (Miscellaneous)
(printing medium; prepn. and properties of printing ink **compn.**
with two liq. components)
- IT Inks
(printing; prepn. and properties of printing ink **compn.** with
two liq. components)
- IT Plastics, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(thermoplastics, ink contg.; prepn. and properties of printing ink
compn. with two liq. components)
- IT 9014-85-1
RL: MOA (Modifier or additive use); USES (Uses)
(Olfine E 1010, Surfynol 465, ink contg.; prepn. and properties of
printing ink **compn.** with two liq. components)
- IT 147-14-8, C.I. Pigment blue 15:3 980-26-7, C.I. Pigment Red 122
6358-31-2, C.I. Pigment Yellow 74 13515-40-7, C.I. Pigment Yellow 73
RL: MOA (Modifier or additive use); TEM (Technical or engineered material
use); USES (Uses)
(Pigment; prepn. and properties of printing ink **compn.** with
two liq. components)
- IT 25085-34-1, Acrylic acid-styrene copolymer 35209-54-2, Acrylic
acid-styrene copolymer ammonium salt
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
(dispersing agent, ink contg.; prepn. and properties of printing ink
compn. with two liq. components)
- IT 25155-30-0, Sodium dodecylbenzenesulfonate
RL: NUU (Other use, unclassified); USES (Uses)
(emulsifier, ink contg.; prepn. and properties of printing ink
compn. with two liq. components)
- IT 151-21-3, Sodium laurylsulfate, uses
RL: NUU (Other use, unclassified); USES (Uses)
(emulsifier; prepn. and properties of printing ink **compn.**
with two liq. components)
- IT 26636-08-8P, 2-Ethylhexyl acrylate-methacrylic acid-styrene copolymer
232935-02-3P, Acrylamide-acrylic acid-ADK Stab LA 82-butyl
acrylate-RUVA 93-styrene copolymer ammonium salt 324575-78-2P
324575-80-6P 324575-82-8P 324575-89-5P, Butyl
acrylate-2-hydroxyethyl acrylate-1,6-hexanediol dimethacrylate-methacrylic
acid-styrene copolymer ammonium salt 324575-91-9P,
Acrylamide-lauryl methacrylate-methacrylic acid-styrene copolymer ammonium

13

salt 324575-93-1P, Acrylamide-butyl acrylate-ethylene glycol dimethacrylate-methacrylic acid-styrene copolymer ammonium salt 324575-95-3P 324575-97-5P, Acrylamide-butyl acrylate-diethylene glycol dimethacrylate-methacrylic acid-styrene copolymer ammonium salt 324575-98-6P, Acrylamide-butyl acrylate-glycidyl methacrylate-methacrylic acid-styrene copolymer ammonium salt 324576-00-3P, Butyl acrylate-methacrylic acid-styrene-trifluoroethyl methacrylate copolymer ammonium salt 324576-03-6P, Acrylamide-butyl acrylate-ethylene glycol dimethacrylate-heptadecafluorodecyl methacrylate-methacrylic acid-styrene copolymer ammonium salt 324576-06-9P, 2-Acryloylamino-2-methylpropanesulfonic acid-butyl acrylate-diethylene glycol dimethacrylate-2,2,3,4,4,4-hexafluorobutyl methacrylate-styrene copolymer ammonium salt 324576-08-1P, Acrylamide-butyl acrylate-methacrylic acid-styrene-2,2,3,3-tetrafluoropropyl methacrylate copolymer ammonium salt 324576-10-5P, Acrylamide-butyl acrylate-glycidyl methacrylate-methacrylic acid-perfluorooctylethyl methacrylate-styrene copolymer ammonium salt 324576-13-8P, Acrylamide-ethylene glycol dimethacrylate-methacrylic acid-methyl methacrylate-styrene-trifluoroethyl methacrylate copolymer ammonium salt 324576-16-1P, Butyl acrylate-methacryloyldiacetylmethane-methacrylic acid-styrene copolymer ammonium salt 324576-18-3P, 2-Acetoacetoxyethyl methacrylate-acrylamide-lauryl methacrylate-methacrylic acid-styrene copolymer ammonium salt 324576-21-8P, 2-Acetoacetoxyethyl methacrylate-acrylamide-butyl acrylate-ethylene glycol dimethacrylate-methacrylic acid-styrene copolymer ammonium salt 324576-24-1P 324576-27-4P, 2-Acetoacetoxyethyl methacrylate-acrylamide-butyl acrylate-methacrylic acid-styrene copolymer ammonium salt 324576-29-6P, Acrylamide-butyl acrylate-diethyl methacryloylmalonate-glycidyl methacrylate-methacrylic acid-styrene copolymer ammonium salt

RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(emulsion, ink contg.; prepn. and properties of printing ink compn. with two liq. components)

IT 16674-78-5, Magnesium acetate tetrahydrate

RL: MOA (Modifier or additive use); USES (Uses)

(ink contg.; prepn. and properties of printing ink compn. with two liq. components)

IT 13446-18-9, Magnesium nitrate hexahydrate

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(ink contg.; prepn. and properties of printing ink compn. with two liq. components)

IT 60-00-4, uses 67-42-5 67-43-6 139-13-9 142-73-4, Iminodiacetic acid 150-39-0, N-Hydroxyethylethylenediamine triacetic acid 482-54-2, Cyclohexane-1,2-diamine tetraacetic acid 869-52-3, Triethylenetetramine hexaacetic acid 2466-09-3, Pyrophosphoric acid 10380-08-2, Triphosphoric acid 13311-39-2, Ethylenediamine tetrapropionic acid

RL: NUU (Other use, unclassified); USES (Uses)

(ink contg.; prepn. and properties of printing ink compn. with two liq. components)

IT 79-10-7D, Acrylic acid, fluoroalkyl esters, polymers 110507-15-8, PAA-HCL 3L

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(ink contg.; prepn. and properties of printing ink compn. with two liq. components)

IT 79-41-4D, Methacrylic acid, esters, polymers 97-65-4D, Itaconic acid,

esters, polymers with styrene 100-42-5D, Styrene, polymers with (meth)acrylates 9002-88-4, Polyethylene 9003-07-0, Polypropylene 9003-20-7, Poly(vinyl acetate) 9003-53-6, Polystyrene 9010-86-0, Ethyl acrylate-ethylene copolymer 24937-78-8, Ethylene-vinyl acetate copolymer 25300-64-5, Maleic acid-styrene copolymer

RL: TEM (Technical or engineered material use); USES (Uses)

(ink contg.; prepn. and properties of printing ink compn.

with two liq. components)

- IT 324575-83-9P 324575-84-0P 324575-85-1P 324575-86-2P
324575-87-3P 324737-82-8P, Acrylonitrile-ethylene oxide graft copolymer, ammonium sulfate 324737-84-0P, Butyl methacrylate-ethylene oxide-methacrylic acid-phenoxyethyl methacrylate graft copolymer ammonium sulfate 324737-86-2P, Benzyl methacrylate-butyl methacrylate-dicyclopentanyl dimethacrylate-ethylene oxide-methacrylic acid graft copolymer ammonium sulfate 324737-88-4P, 2-Acrylamido-2-methylpropanesulfonic acid-acrylonitrile-benzyl methacrylate-butyl methacrylate-ethylene oxide graft copolymer ammonium sulfate 324737-90-8P, Acrylonitrile-dibutyl fumarate-ethylene oxide graft copolymer ammonium sulfate

RL: IMF (Industrial manufacture); POF (Polymer in formulation);

TEM (Technical or engineered material use); PREP (Preparation);

USES (Uses)

(pigment dispersion; prepn. and properties of printing ink

compn. with two liq. components)

- IT 5580-57-4, C.I. Pigment Yellow 93 76199-85-4, C.I. Pigment Yellow 185
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(pigment; prepn. and properties of printing ink compn. with

two liq. components)

- IT 56-81-5, Glycerin, uses 58-86-6, Xylose, uses 80-73-9,
1,3-Dimethyl-2-imidazolidinone 111-46-6, Diethylene glycol, uses
112-34-5, Diethylene glycol monobutyl ether 143-22-6, Triethylene glycol monobutyl ether 585-88-6, Maltitol 616-45-5, 2-Pyrrolidone 872-50-4,
N-Methyl-2-pyrrolidone, uses

RL: NUU (Other use, unclassified); USES (Uses)

(solvent; prepn. and properties of printing ink compn. with

two liq. components)

RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Canon Kabushiki Kaisha; JP 06299110 A HCAPLUS
- (2) Canon Kabushiki Kaisha; CN 1116990 A
- (3) Canon Kabushiki Kaisha; ES 2111802 T3 HCAPLUS
- (4) Canon Kabushiki Kaisha; CA 2131424 A
- (5) Canon Kabushiki Kaisha; US 5515093 A
- (6) Canon Kabushiki Kaisha; US 5603756 A HCAPLUS
- (7) Canon Kabushiki Kaisha; US 5786835 A
- (8) Canon Kabushiki Kaisha; US 5922625 A HCAPLUS
- (9) Canon Kabushiki Kaisha; DE 69407874 E
- (10) Canon Kabushiki Kaisha; DE 69417086 E
- (11) Canon Kabushiki Kaisha; JP 726474 A
- (12) Canon Kabushiki Kaisha; JP 825792 A
- (13) Canon Kabushiki Kaisha; AU 9472860 A HCAPLUS
- (14) Canon Kabushiki Kaisha; EP 620116 A2 1994 HCAPLUS
- (15) Canon Kabushiki Kaisha; EP 631006 A1 1994 HCAPLUS
- (16) Canon Kabushiki Kaisha; EP 649751 A2 1995 HCAPLUS
- (17) Hewlett-Packard Company; JP 05202328 A HCAPLUS
- (18) Hewlett-Packard Company; EP 534634 A1 1993 HCAPLUS
- (19) Kanebo Ltd; JP 06146178 A 1994 HCAPLUS
- (20) Sanyo Chemical Industries Ltd; JP 05179577 A HCAPLUS
- (21) Sanyo Chemical Industries Ltd; CA 2115184 A HCAPLUS

(22) Sanyo Chemical Industries Ltd; EP 631005 A1 1994 HCAPLUS
(23) Seiko Epson Corporation; JP 09207424 A HCAPLUS
(24) Seiko Epson Corporation; JP 1112519 A
(25) Seiko Epson Corporation; JP 11349875 A HCAPLUS
(26) Seiko Epson Corporation; US 6084619 A HCAPLUS
(27) Seiko Epson Corporation; EP 739743 A1 1996 HCAPLUS
(28) Seiko Epson Corporation; EP 875544 A1 1998 HCAPLUS
(29) Seiko Epson Corporation; JP 1129731 A 1999
(30) Seiko Epson Corporation; JP 1134478 A 1999
(31) Seiko Epson Corporation; EP 900831 A2 1999 HCAPLUS
IT 232935-02-3P, Acrylamide-acrylic acid-ADK Stab LA 82-butyl
acrylate-RUVA 93-styrene copolymer ammonium salt 324575-78-2P
324575-80-6P 324575-82-8P 324575-89-5P, Butyl
acrylate-2-hydroxyethyl acrylate-1,6-hexanediol dimethacrylate-methacrylic
acid-styrene copolymer ammonium salt 324575-91-9P,
Acrylamide-lauryl methacrylate-methacrylic acid-styrene copolymer ammonium
salt 324575-93-1P, Acrylamide-butyl acrylate-ethylene glycol
dimethacrylate-methacrylic acid-styrene copolymer ammonium salt
324575-95-3P 324575-97-5P, Acrylamide-butyl
acrylate-diethylene glycol dimethacrylate-methacrylic acid-styrene
copolymer ammonium salt 324575-98-6P, Acrylamide-butyl
acrylate-glycidyl methacrylate-methacrylic acid-styrene copolymer ammonium
salt 324576-03-6P, Acrylamide-butyl acrylate-ethylene glycol
dimethacrylate-heptadecafluorodecyl methacrylate-methacrylic acid-styrene
copolymer ammonium salt 324576-06-9P, 2-Acryloylamino-2-
methylpropanesulfonic acid-butyl acrylate-diethylene glycol
dimethacrylate-2,2,3,4,4,4-hexafluorobutyl methacrylate-styrene copolymer
ammonium salt 324576-08-1P, Acrylamide-butyl
acrylate-methacrylic acid-styrene-2,2,3,3-tetrafluoropropyl methacrylate
copolymer ammonium salt 324576-10-5P, Acrylamide-butyl
acrylate-glycidyl methacrylate-methacrylic acid-perfluorooctylethyl
methacrylate-styrene copolymer ammonium salt 324576-13-8P,
Acrylamide-ethylene glycol dimethacrylate-methacrylic acid-methyl
methacrylate-styrene-trifluoroethyl methacrylate copolymer ammonium salt
324576-18-3P, 2-Acetoacetoxyethyl methacrylate-acrylamide-lauryl
methacrylate-methacrylic acid-styrene copolymer ammonium salt
324576-21-8P, 2-Acetoacetoxyethyl methacrylate-acrylamide-butyl
acrylate-ethylene glycol dimethacrylate-methacrylic acid-styrene copolymer
ammonium salt 324576-24-1P 324576-27-4P,
2-Acetoacetoxyethyl methacrylate-acrylamide-butyl acrylate-methacrylic
acid-styrene copolymer ammonium salt 324576-29-6P,
Acrylamide-butyl acrylate-diethyl methacryloylmalonate-glycidyl
methacrylate-methacrylic acid-styrene copolymer ammonium salt
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)
(emulsion, ink contg.; prepn. and properties of printing ink
compn. with two liq. components)
RN 232935-02-3 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-[3-(2H-benzotriazol-2-yl)-4-
hydroxyphenyl]ethyl ester, polymer with butyl 2-propenoate,
ethenylbenzene, 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate,
2-propenamide and 2-propenoic acid, ammonium salt (9CI) (CA INDEX NAME)

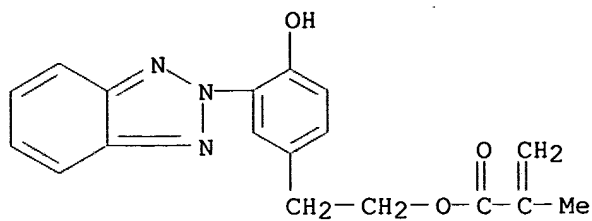
CM. 1

CRN 215377-65-4
CMF (C18 H17 N3 O3 . C14 H25 N O2 . C8 H8 . C7 H12 O2 . C3 H5 N O . C3 H4
O2)x
CCI PMS

CM 2

CRN 96478-09-0

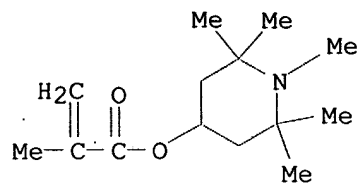
CMF C18 H17 N3 O3



CM 3

CRN 68548-08-3

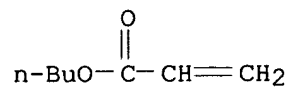
CMF C14 H25 N O2



CM 4

CRN 141-32-2

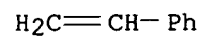
CMF C7 H12 O2



CM 5

CRN 100-42-5

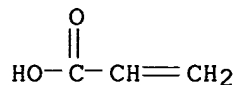
CMF C8 H8



CM 6

CRN 79-10-7

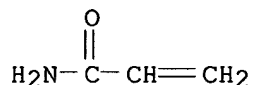
CMF C3 H4 O2



CM 7

CRN 79-06-1

CMF C3 H5 N O



RN 324575-78-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, oxiranylmethyl 2-methyl-2-propenoate, 1,2,2,6,6-pentamethyl-4-piperidiny 2-methyl-2-propenoate and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-77-1

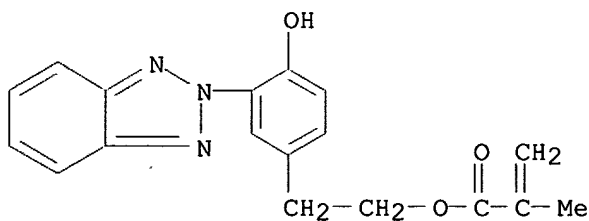
CMF (C18 H17 N3 O3 . C14 H25 N O2 . C8 H8 . C7 H12 O2 . C7 H10 O3 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

CRN 96478-09-0

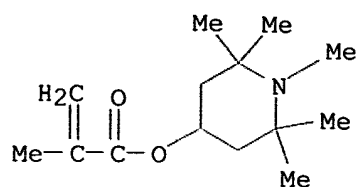
CMF C18 H17 N3 O3



CM 3

CRN 68548-08-3

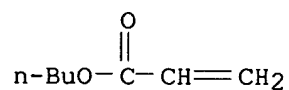
CMF C14 H25 N O2



CM 4

CRN 141-32-2

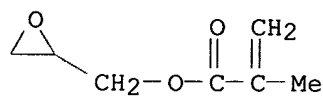
CMF C7 H12 O2



CM 5

CRN 106-91-2

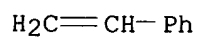
CMF C7 H10 O3



CM 6

CRN 100-42-5

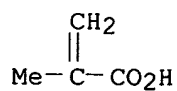
CMF C8 H8



CM 7

CRN 79-41-4

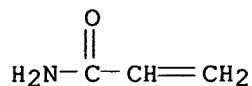
CMF C4 H6 O2



CM 8

CRN 79-06-1

CMF C3 H5 N O



RN 324575-80-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,2-ethanediyl ester, polymer with
 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-methyl-2-propenoate,
 butyl 2-propenoate, ethenylbenzene, 1,2,2,6,6-pentamethyl-4-piperidinyll
 2-methyl-2-propenoate, 2-propenamide and 2-propenoic acid, ammonium salt
 (9CI) (CA INDEX NAME)

CM 1

CRN 324575-79-3

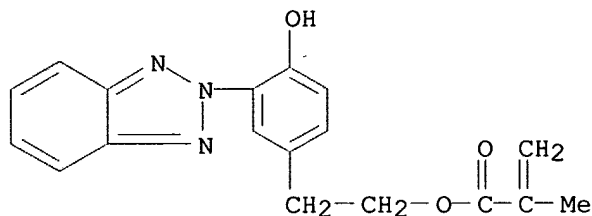
CMF (C18 H17 N3 O3 . C14 H25 N O2 . C10 H14 O4 . C8 H8 . C7 H12 O2 . C3
 H5 N O . C3 H4 O2)x

CCI PMS

CM 2

CRN 96478-09-0

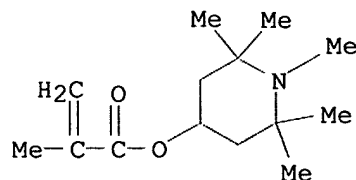
CMF C18 H17 N3 O3



CM 3

CRN 68548-08-3

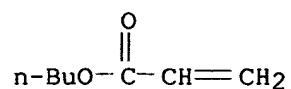
CMF C14 H25 N O2



CM 4

CRN 141-32-2

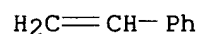
CMF C7 H12 O2



CM 5

CRN 100-42-5

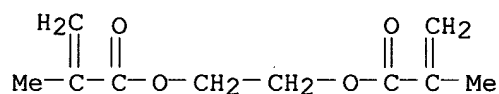
CMF C8 H8



CM 6

CRN 97-90-5

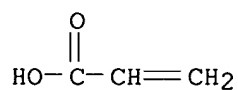
CMF C10 H14 O4



CM 7

CRN 79-10-7

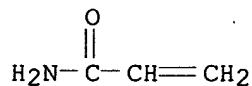
CMF C3 H4 O2



CM 8

CRN 79-06-1

CMF C3 H5 N O



RN 324575-82-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl 2-methyl-2-propenoate, butyl 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene, oxiranylmethyl 2-methyl-2-propenoate, 1,2,2,6,6-pentamethyl-4-piperidinyl 2-methyl-2-propenoate, 2-propenamide and 2-sulfoethyl 2-methyl-2-propenoate sodium salt, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-81-7

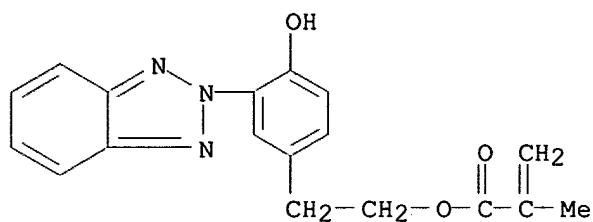
CMF (C18 H17 N3 O3 . C14 H25 N O2 . C10 H14 O4 . C8 H8 . C7 H12 O2 . C7 H10 O3 . C6 H10 O5 S . C4 H6 O2 . C3 H5 N O . Na)x

CCI PMS

CM 2

CRN 96478-09-0

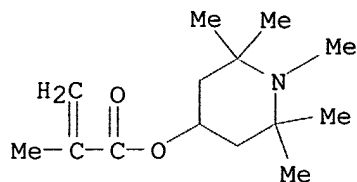
CMF C18 H17 N3 O3



CM 3

CRN 68548-08-3

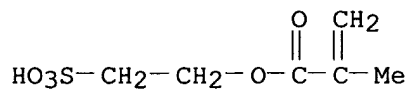
CMF C14 H25 N O2



CM 4

CRN 1804-87-1

CMF C6 H10 O5 S . Na

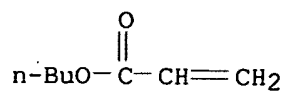


● Na

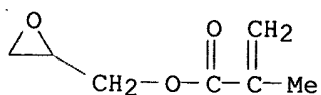
CM 5

CRN 141-32-2

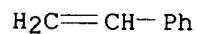
CMF C7 H12 O2



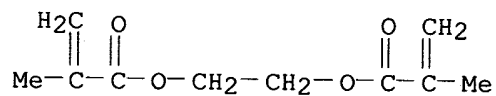
CM 6

CRN 106-91-2
CMF C7 H10 O3

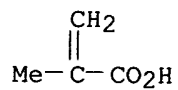
CM 7

CRN 100-42-5
CMF C8 H8

CM 8

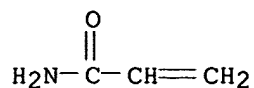
CRN 97-90-5
CMF C10 H14 O4

CM 9

CRN 79-41-4
CMF C4 H6 O2

CM 10

CRN 79-06-1
CMF C3 H5 N O



RN 324575-89-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, 1,6-hexanediyl bis(2-methyl-2-propenoate) and 2-hydroxyethyl 2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-88-4

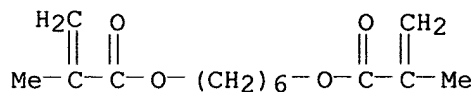
CMF (C14 H22 O4 . C8 H8 . C7 H12 O2 . C5 H8 O3 . C4 H6 O2)x

CCI PMS

CM 2

CRN 6606-59-3

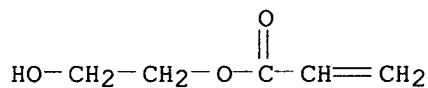
CMF C14 H22 O4



CM 3

CRN 818-61-1

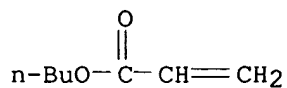
CMF C5 H8 O3



CM 4

CRN 141-32-2

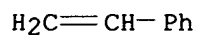
CMF C7 H12 O2



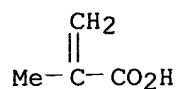
CM 5

CRN 100-42-5

CMF C8 H8



CM 6

CRN 79-41-4
CMF C4 H6 O2

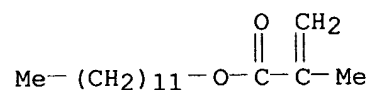
RN 324575-91-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with dodecyl 2-methyl-2-propenoate, ethenylbenzene and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

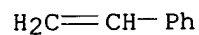
CM 1

CRN 324575-90-8
CMF (C16 H30 O2 . C8 H8 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

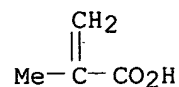
CM 2

CRN 142-90-5
CMF C16 H30 O2

CM 3

CRN 100-42-5
CMF C8 H8

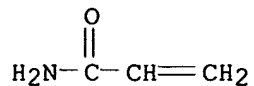
CM 4

CRN 79-41-4
CMF C4 H6 O2

CM 5

CRN 79-06-1

CMF C3 H5 N O



RN 324575-93-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-92-0

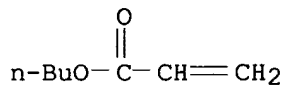
CMF (C10 H14 O4 . C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

CRN 141-32-2

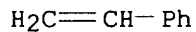
CMF C7 H12 O2



CM 3

CRN 100-42-5

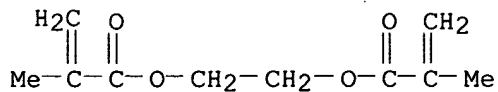
CMF C8 H8



CM 4

CRN 97-90-5

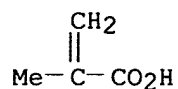
CMF C10 H14 O4



CM 5

CRN 79-41-4

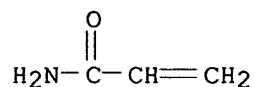
CMF C4 H6 O2



CM 6

CRN 79-06-1

CMF C3 H5 N O



RN 324575-95-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene and 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-94-2

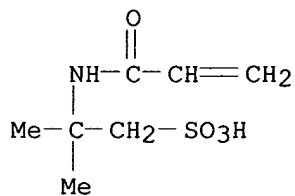
CMF (C10 H14 O4 . C8 H8 . C7 H13 N O4 S . C7 H12 O2 . C4 H6 O2)x

CCI PMS

CM 2

CRN 15214-89-8

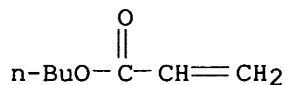
CMF C7 H13 N O4 S



CM 3

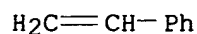
CRN 141-32-2

CMF C7 H12 O2



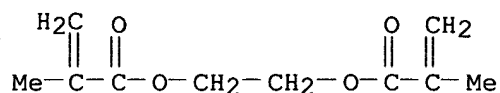
CM 4

CRN 100-42-5
CMF C8 H8



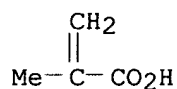
CM 5

CRN 97-90-5
CMF C10 H14 O4



CM 6

CRN 79-41-4
CMF C4 H6 O2



RN 324575-97-5 HCAPLUS

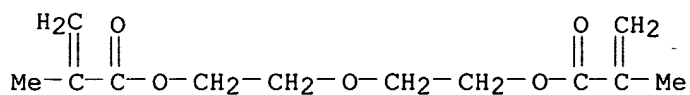
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, oxydi-2,1-ethanediyl bis(2-methyl-2-propenoate) and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324575-96-4
CMF (C12 H18 O5 . C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

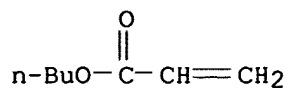
CM 2

CRN 2358-84-1
CMF C12 H18 O5



CM 3

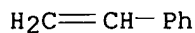
CRN 141-32-2
CMF C7 H12 O2



CM 4

CRN 100-42-5

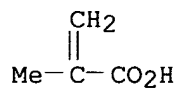
CMF C8 H8



CM 5

CRN 79-41-4

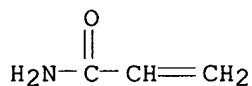
CMF C4 H6 O2



CM 6

CRN 79-06-1

CMF C3 H5 N O



RN 324575-98-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, oxiranylmethyl 2-methyl-2-propenoate and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 75266-11-4

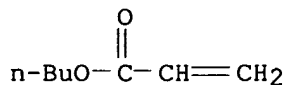
CMF (C8 H8 . C7 H12 O2 . C7 H10 O3 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

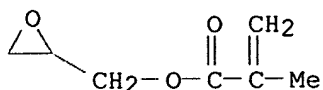
CM 2

CRN 141-32-2

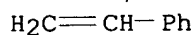
CMF C7 H12 O2



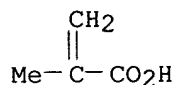
CM 3

CRN 106-91-2
CMF C7 H10 O3

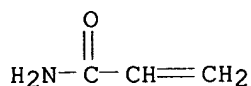
CM 4

CRN 100-42-5
CMF C8 H8

CM 5

CRN 79-41-4
CMF C4 H6 O2

CM 6

CRN 79-06-1
CMF C3 H5 N O

RN 324576-03-6 HCAPLUS

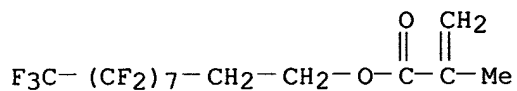
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate,
1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene,
3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl
2-methyl-2-propenoate and 2-propenamide, ammonium salt (9CI) (CA INDEX
NAME)

CM 1

CRN 324576-02-5
CMF (C14 H9 F17 O2 . C10 H14 O4 . C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N
O) x
CCI PMS

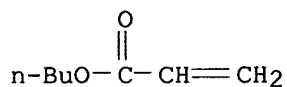
CM 2

CRN 1996-88-9
CMF C14 H9 F17 O2



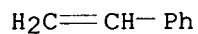
CM 3

CRN 141-32-2
CMF C7 H12 O2



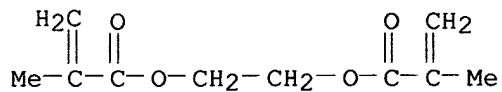
CM 4

CRN 100-42-5
CMF C8 H8



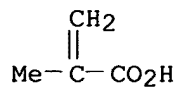
CM 5

CRN 97-90-5
CMF C10 H14 O4



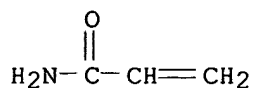
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 79-06-1
CMF C3 H5 N O



RN 324576-06-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, oxydi-2,1-ethanediyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 2,2,3,4,4,4-hexafluorobutyl 2-methyl-2-propenoate and 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

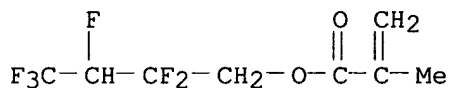
CRN 324576-05-8

CMF (C12 H18 O5 . C8 H8 F6 O2 . C8 H8 . C7 H13 N O4 S . C7 H12 O2)x
CCI PMS

CM 2

CRN 36405-47-7

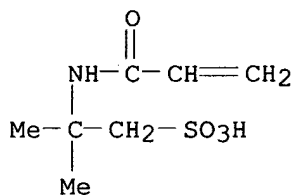
CMF C8 H8 F6 O2



CM 3

CRN 15214-89-8

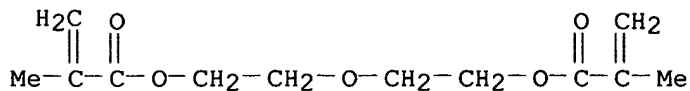
CMF C7 H13 N O4 S



CM 4

CRN 2358-84-1

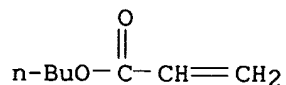
CMF C12 H18 O5



CM 5

CRN 141-32-2

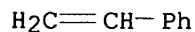
CMF C7 H12 O2



CM 6

CRN 100-42-5

CMF C8 H8



RN 324576-08-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, 2-propenamide and 2,2,3,3-tetrafluoropropyl 2-methyl-2-propenoate, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-07-0

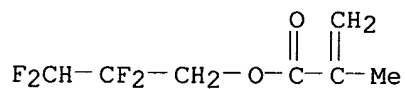
CMF (C8 H8 . C7 H12 O2 . C7 H8 F4 O2 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

CRN 45102-52-1

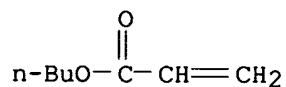
CMF C7 H8 F4 O2



CM 3

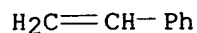
CRN 141-32-2

CMF C7 H12 O2



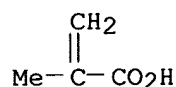
CM 4

CRN 100-42-5
CMF C8 H8



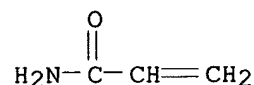
CM 5

CRN 79-41-4
CMF C4 H6 O2



CM 6

CRN 79-06-1
CMF C3 H5 N O



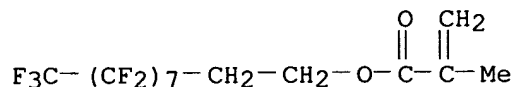
RN 324576-10-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-propenoate, ethenylbenzene, 3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl 2-methyl-2-propenoate, oxiranylmethyl 2-methyl-2-propenoate and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-09-2
CMF (C14 H9 F17 O2 . C8 H8 . C7 H12 O2 . C7 H10 O3 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

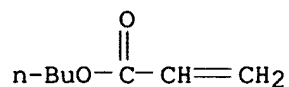
CM 2

CRN 1996-88-9
CMF C14 H9 F17 O2

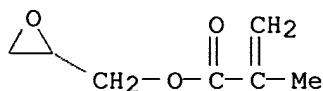


CM 3

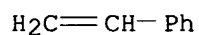
CRN 141-32-2
CMF C7 H12 O2



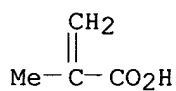
CM 4

CRN 106-91-2
CMF C7 H10 O3

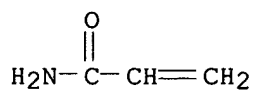
CM 5

CRN 100-42-5
CMF C8 H8

CM 6

CRN 79-41-4
CMF C4 H6 O2

CM 7

CRN 79-06-1
CMF C3 H5 N O

RN 324576-13-8 HCAPLUS

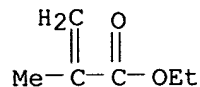
CN 2-Propenoic acid, 2-methyl-, polymer with 1,2-ethanediyl
bis(2-methyl-2-propenoate), ethenylbenzene, methyl 2-methyl-2-propenoate,
2-propenamide and trifluoroethyl 2-methyl-2-propenoate, ammonium salt
(9CI) (CA INDEX NAME)

CM 1

CRN 324576-12-7
CMF (C10 H14 O4 . C8 H8 . C6 H7 F3 O2 . C5 H8 O2 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

CM 2

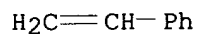
CRN 38785-10-3
CMF C6 H7 F3 O2
CCI IDS



3 (D1-F)

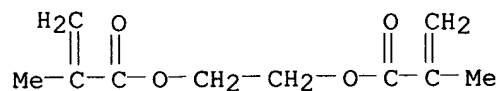
CM 3

CRN 100-42-5
CMF C8 H8



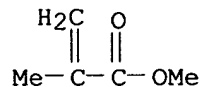
CM 4

CRN 97-90-5
CMF C10 H14 O4



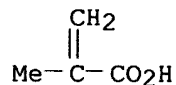
CM 5

CRN 80-62-6
CMF C5 H8 O2



CM 6

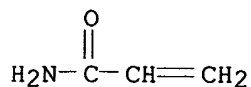
CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 79-06-1

CMF C3 H5 N O



RN 324576-18-3 HCAPLUS

CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with dodecyl 2-methyl-2-propenoate, ethenylbenzene, 2-methyl-2-propenoic acid and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-17-2

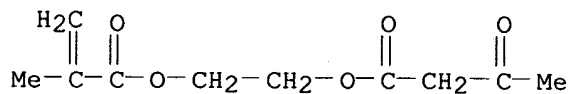
CMF (C16 H30 O2 . C10 H14 O5 . C8 H8 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

CRN 21282-97-3

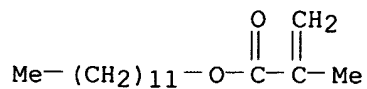
CMF C10 H14 O5



CM 3

CRN 142-90-5

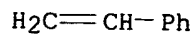
CMF C16 H30 O2



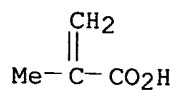
CM 4

CRN 100-42-5

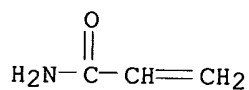
CMF C8 H8



CM 5

CRN 79-41-4
CMF C4 H6 O2

CM 6

CRN 79-06-1
CMF C3 H5 N O

RN 324576-21-8 HCAPLUS

CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with butyl 2-propenoate, 1,2-ethanediyl bis(2-methyl-2-propenoate), ethenylbenzene, 2-methyl-2-propenoic acid and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

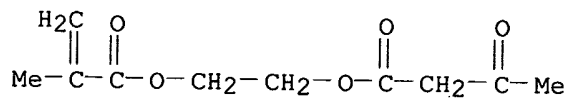
CRN 324576-20-7

CMF (C10 H14 O5 . C10 H14 O4 . C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

CM 2

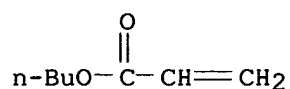
CRN 21282-97-3

CMF C10 H14 O5



CM 3

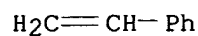
CRN 141-32-2
CMF C7 H12 O2



CM 4

CRN 100-42-5

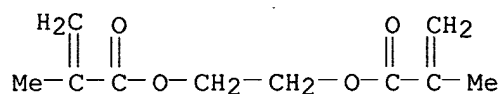
CMF C8 H8



CM 5

CRN 97-90-5

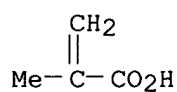
CMF C10 H14 O4



CM 6

CRN 79-41-4

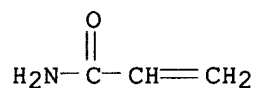
CMF C4 H6 O2



CM 7

CRN 79-06-1

CMF C3 H5 N O



RN 324576-24-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, oxydi-2,1-ethanediyl ester, polymer with 1-acetyl-2-oxopropyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene and 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-23-0

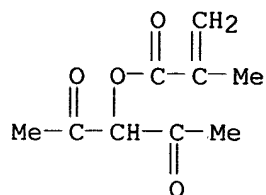
CMF (C12 H18 O5 . C9 H12 O4 . C8 H8 . C7 H13 N O4 S . C7 H12 O2)x

CCI PMS

CM 2

CRN 129955-71-1

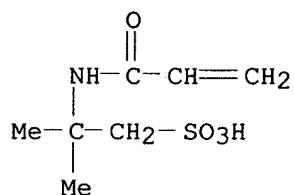
CMF C9 H12 O4



CM 3

CRN 15214-89-8

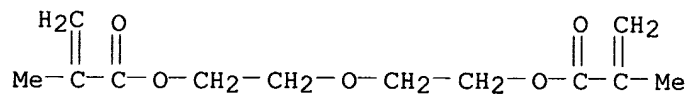
CMF C7 H13 N O4 S



CM 4

CRN 2358-84-1

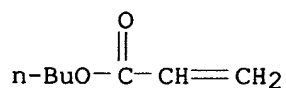
CMF C12 H18 O5



CM 5

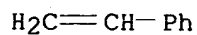
CRN 141-32-2

CMF C7 H12 O2



CM 6

CRN 100-42-5
CMF C8 H8



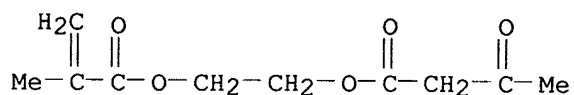
RN 324576-27-4 HCAPLUS
CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 2-methyl-2-propenoic acid and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-26-3
CMF (C10 H14 O5 . C8 H8 . C7 H12 O2 . C4 H6 O2 . C3 H5 N O)x
CCI PMS

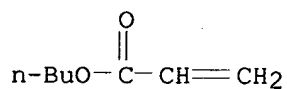
CM 2

CRN 21282-97-3
CMF C10 H14 O5



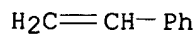
CM 3

CRN 141-32-2
CMF C7 H12 O2



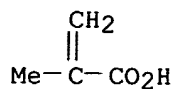
CM 4

CRN 100-42-5
CMF C8 H8



CM 5

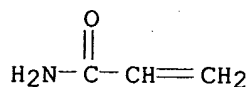
CRN 79-41-4
CMF C4 H6 O2



CM 6

CRN 79-06-1

CMF C3 H5 N O



RN 324576-29-6 HCAPLUS

CN Propanedioic acid, (2-methyl-1-oxo-2-propenyl)-, diethyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 2-methyl-2-propenoic acid, oxiranylmethyl 2-methyl-2-propenoate and 2-propenamide, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 324576-28-5

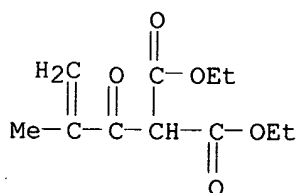
CMF (C11 H16 O5 . C8 H8 . C7 H12 O2 . C7 H10 O3 . C4 H6 O2 . C3 H5 N O)x

CCI PMS

CM 2

CRN 4180-09-0

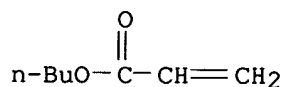
CMF C11 H16 O5



CM 3

CRN 141-32-2

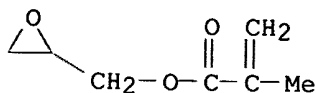
CMF C7 H12 O2



CM 4

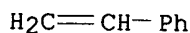
CRN 106-91-2

CMF C7 H10 O3



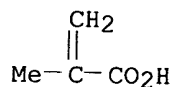
CM 5

CRN 100-42-5
CMF C8 H8



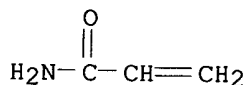
CM 6

CRN 79-41-4
CMF C4 H6 O2



CM 7

CRN 79-06-1
CMF C3 H5 N O

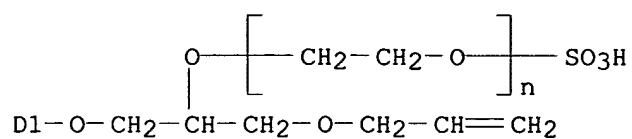


IT 324575-86-2P 324737-88-4P, 2-Acrylamido-2-methylpropanesulfonic acid-acrylonitrile-benzyl methacrylate-butyl methacrylate-ethylene oxide graft copolymer ammonium sulfate
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(pigment dispersion; prepn. and properties of printing ink compn. with two liq. components)
RN 324575-86-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, phenylmethyl 2-methyl-2-propenoate, 2-propenenitrile and .alpha.-sulfo-.omega.-[1-[(nonylphenoxy)methyl]-2-(2-propenyloxy)ethoxy]poly(oxy-1,2-ethanediyl) ammonium salt, graft (9CI) (CA INDEX NAME)
CM 1
CRN 113405-85-9

CMF (C2 H4 O)_n C21 H34 O6 S . H3 N
 CCI IDS, PMS



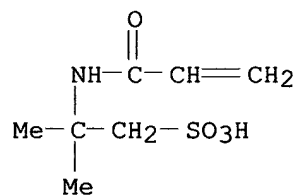
D1- (CH₂)₈-Me



CM 2

CRN 15214-89-8

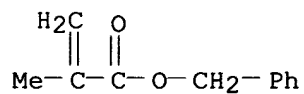
CMF C7 H13 N O4 S



CM 3

CRN 2495-37-6

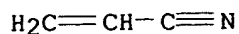
CMF C11 H12 O2



CM 4

CRN 107-13-1

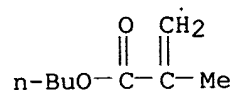
CMF C3 H3 N



CM 5

CRN 97-88-1

CMF C8 H14 O2



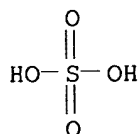
RN 324737-88-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid, oxirane,
phenylmethyl 2-methyl-2-propenoate and 2-propenenitrile, hydrogen sulfate,
graft, ammonium salt (9CI) (CA INDEX NAME)

CM 1

CRN 7664-93-9

CMF H2 O4 S



CM 2

CRN 324737-87-3

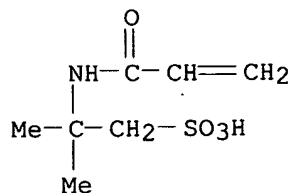
CMF (C11 H12 O2 . C8 H14 O2 . C7 H13 N O4 S . C3 H3 N . C2 H4 O)x

CCI PMS

CM 3

CRN 15214-89-8

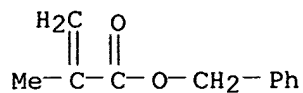
CMF C7 H13 N O4 S



CM 4

CRN 2495-37-6

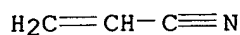
CMF C11 H12 O2



CM 5

CRN 107-13-1

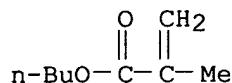
CMF C3 H3 N



CM 6

CRN 97-88-1

CMF C8 H14 O2



CM 7

CRN 75-21-8

CMF C2 H4 O



L23 ANSWER 19 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:91292 HCAPLUS

DN 134:149329

TI Pigment dispersing agents, pigment dispersions and color photosensitive **compositions** for use in the manufacture of color filters of liquid-crystal display devices, etc.

IN Yoshimura, Kosaku; Takeda, Akihiko

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 17 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09B067-20

ICS G03F007-004

CC 46-4 (Surface Active Agents and Detergents)

Section cross-reference(s): 42, 74, 76

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO.

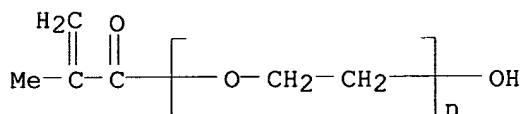
DATE

PI JP 2001031885 A2 20010206 JP 1999-364066 19991222
 PRAI JP 1999-139928 A 19990520
 AB The dispersing agents with good dispersion power are obtained from graft copolymers of 15-98% oligomers with unsatd. ethylene end groups, 1-40% N-contg. polymerizable monomers and 1-70% ether-contg. polymerizable monomers. Thus, polymg. 3-(N,N-dimethylamino)propylacrylamide 4.5, Macromonomer AA 6 (monomethacryloyl-terminated PMMA) 19.5 and NK Ester M 230G (methoxy polyethylene glycol monomethacrylate) 6 in the presence of V 65 (azo radical initiator) 0.12 and 1-methoxy-2-Pr acetate 45 parts gave a graft copolymer, 8.28 g of which was mixed with 8.28 g C.I. Pigment Red 254 and 63.44 g 1-methoxy-2-Pr acetate to give a red color dispersion. Mixing this dispersion 32.4, methacrylic acid/benzyl methacrylate copolymer 9.0, 4-[p-N,N-di(ethoxycarbonylmethyl)]-2,6-di(trichloromethyl)-S-triazine 0.2 and hydroquinone monomethyl ether 0.01 in 1-methoxy-2-Pr acetate 62 part gave a title **compn.**
 ST methacrylate graft copolymer pigment dispersing agent color photosensitive **compn**; photo curable dispersion color filter liq cryst display
 IT Polyoxyalkylenes, uses
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (acrylic, graft, dispersants; manuf. of dispersants for pigment dispersions useful in manuf. of color filters of liq.-crystal display devices)
 IT Glass, uses
 RL: DEV (Device component use); USES (Uses)
 (color filter substrate; manuf. of dispersants for pigment dispersions useful in manuf. of color filters of liq.-crystal display devices)
 IT Pigments, nonbiological
 (dispersants for; manuf. of dispersants for pigment dispersions useful in manuf. of color filters of liq.-crystal display devices)
 IT Dispersing agents
 (for pigments; manuf. of dispersants for pigment dispersions useful in manuf. of color filters of liq.-crystal display devices)
 IT Light-sensitive materials
 Optical filters
 (manuf. of dispersants for pigment dispersions useful in manuf. of color filters of liq.-crystal display devices)
 IT 65697-21-4, Benzyl methacrylate-methacrylic acid copolymer
 RL: DEV (Device component use); POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 (binder; manuf. of dispersants for pigment dispersions useful in manuf. of color filters of liq.-crystal display devices)
 IT 324053-10-3P 324053-12-5P 324053-14-7P 324053-16-9P 324053-19-2P 324053-22-7P 324518-36-7P, Ethylene oxide-methyl methacrylate-N-vinylimidazole graft copolymer methyl ether 324518-38-9P, 3-(N,N-Dimethylamino)propylacrylamide-ethylene oxide-2-hydroxyethyl methacrylate-methyl methacrylate graft copolymer methyl ether
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
 (dispersants; manuf. of dispersants for pigment dispersions useful in manuf. of color filters of liq.-crystal display devices)
 IT 324053-08-9, Dimethylaminopropylacrylamide-Macromonomer AA 6-methoxypolyethylene glycol monomethacrylate graft copolymer 324518-34-5, 3-(N,N-Dimethylamino)propylacrylamide-ethylene oxide-methyl methacrylate graft copolymer methyl ether
 RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
 (dispersants; manuf. of dispersants for pigment dispersions

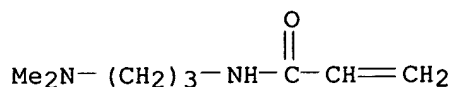
useful in manuf. of color filters of liq.-crystal display devices)
 IT 147-14-8, C.I. Pigment Blue 15:6 14302-13-7, C.I. Pigment Green 36
 30125-47-4, C.I. Pigment yellow 138 84632-65-5, C.I. Pigment Red 254
 RL: TEM (Technical or engineered material use); USES (Uses)
 (pigment; manuf. of dispersants for pigment dispersions useful in
 manuf. of color filters of liq.-crystal display devices)
 IT 4419-11-8, V-65
 RL: CAT (Catalyst use); USES (Uses)
 (radical initiator; manuf. of dispersants for pigment dispersions
 useful in manuf. of color filters of liq.-crystal display devices)
 IT 324053-10-3P 324053-12-5P 324053-16-9P
 324053-22-7P 324518-38-9P, 3-(N,N-
 Dimethylamino)propylacrylamide-ethylene oxide-2-hydroxyethyl
 methacrylate-methyl methacrylate graft copolymer methyl ether
 RL: IMF (Industrial manufacture); MOA (Modifier or additive
 use); PREP (Preparation); USES (Uses)
 (dispersants; manuf. of dispersants for pigment dispersions
 useful in manuf. of color filters of liq.-crystal display devices)
 RN 324053-10-3 HCAPLUS
 CN 2-Propenamide, N-[3-(dimethylamino)propyl]-, polymer with Macromonomer AA
 6 and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-
 ethanediyl), graft (9CI) (CA INDEX NAME)
 CM 1
 CRN 122525-04-6
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2
 CRN 25736-86-1
 CMF (C2 H4 O)_n C4 H6 O2
 CCI PMS



CM 3
 CRN 3845-76-9
 CMF C8 H16 N2 O

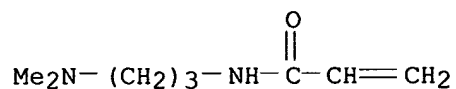


RN 324053-12-5 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 N-[3-(dimethylamino)propyl]-2-propenamide and oxirane, graft (9CI) (CA
 INDEX NAME)

CM 1

CRN 3845-76-9

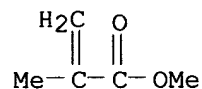
CMF C8 H16 N2 O



CM 2

CRN 80-62-6

CMF C5 H8 O2



CM 3

CRN 75-21-8

CMF C2 H4 O



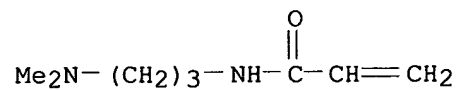
RN 324053-16-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
N-[3-(dimethylamino)propyl]-2-propenamide and methyloxirane, graft (9CI)
(CA INDEX NAME)

CM 1

CRN 3845-76-9

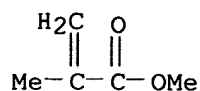
CMF C8 H16 N2 O



CM 2

CRN 80-62-6

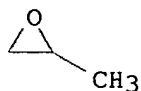
CMF C5 H8 O2



CM 3

CRN 75-56-9

CMF C3 H6 O



RN 324053-22-7 HCAPLUS

CN 2-Propenamide, N-[3-(dimethylamino)propyl]-, polymer with Macromonomer AA 714 and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 289701-59-3

CMF Unspecified

CCI PMS, MAN

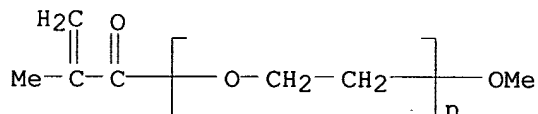
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

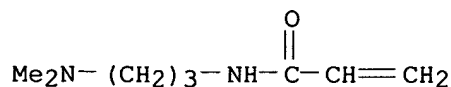
CCI PMS



CM 3

CRN 3845-76-9

CMF C8 H16 N2 O



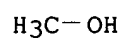
RN 324518-38-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with N-[3-(dimethylamino)propyl]-2-propenamide, methyl 2-methyl-2-propenoate and oxirane, methyl ether, graft (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O



CM 2

CRN 324518-37-8

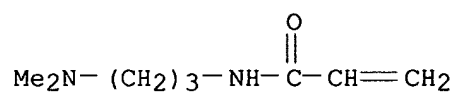
CMF (C8 H16 N2 O . C6 H10 O3 . C5 H8 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 3845-76-9

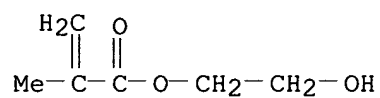
CMF C8 H16 N2 O



CM 4

CRN 868-77-9

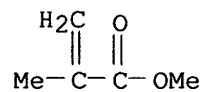
CMF C6 H10 O3



CM 5

CRN 80-62-6

CMF C5 H8 O2



CM 6

CRN 75-21-8

CMF C2 H4 O



IT 324053-08-9, Dimethylaminopropylacrylamide-Macromonomer AA
 6-methoxypolyethylene glycol monomethacrylate graft copolymer
 324518-34-5, 3-(N,N-Dimethylamino)propylacrylamide-ethylene
 oxide-methyl methacrylate graft copolymer methyl ether
 RL: MOA (Modifier or additive use); PRP (Properties); USES
 (Uses)
 (dispersants; manuf. of dispersants for pigment dispersions
 useful in manuf. of color filters of liq.-crystal display devices)

RN 324053-08-9 HCAPLUS

CN 2-Propenamide, N-[3-(dimethylamino)propyl]-, polymer with Macromonomer AA
 6 and .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-methoxypoly(oxy-1,2-
 ethanediyl), graft (9CI) (CA INDEX NAME)

CM 1

CRN 122525-04-6

CMF Unspecified

CCI PMS, MAN

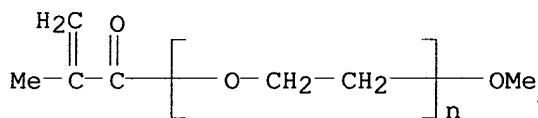
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 26915-72-0

CMF (C2 H4 O)_n C5 H8 O2

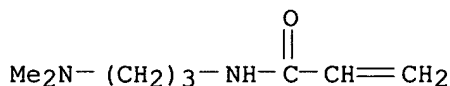
CCI PMS



CM 3

CRN 3845-76-9

CMF C8 H16 N2 O



RN 324518-34-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 N-[3-(dimethylamino)propyl]-2-propenamide and oxirane, methyl ether, graft
 (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1

CMF C H4 O

H₃C-OH

CM 2

CRN 324053-12-5

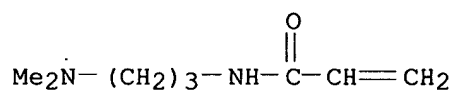
CMF (C8 H16 N2 O . C5 H8 O2 . C2 H4 O)x

CCI PMS

CM 3

CRN 3845-76-9

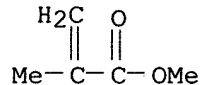
CMF C8 H16 N2 O



CM 4

CRN 80-62-6

CMF C5 H8 O2



CM 5

CRN 75-21-8

CMF C2 H4 O



L23 ANSWER 20 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:17870 HCAPLUS

DN 134:87651

TI Acrylic resin pigment dispersants, their pastes, and their coating **compositions** with good let-down stability

IN Nakajima, Yoshio; Yugawa, Yoshiyuki; Nakai, Noboru; Kamimori, Isao

PA Kansai Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08F220-18

ICS C08L033-08; C09D133-08

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

CC 42-5 (Coatings, Inks, and Related Products)

Section cross-reference(s): 41

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001002736	A2	20010109	JP 1999-169074	19990616
AB	The resins are prepd. from unsatd. monomers having amino, quaternary ammonium salt groups, and/or sulfonate groups 0.1-10, OH-contg. unsatd. monomers 2-30, C8-24 branched alkyl-contg. (meth)acrylate monomers 5-50, and other unsatd. comonomers 10-92.9 parts and show Mw 10,000-100,000. Thus, 80 parts (solid) polycaprolactone 2-hydroxyethyl methacrylate ester-Me methacrylate-isostearyl acrylate-dimethylaminoethyl methacrylate copolymer (Mw 28,000, OH value 24 mg-KOH/g) paste contg. Monarch 1300 (carbon black) was blended with Bu acrylate-2-hydroxyethyl methacrylate-Me methacrylate-styrene copolymer 180, melamine resin (Nikalac MS 25) 60, a crosslinking catalyst (Nacure 5225) 1.1, and a surface modifier (Disparon LC 955) 1.4 parts, applied on a degreased steel plate, and baked at 140.degree. to give a coated plate showing good appearance, cross-cut adhesion test 100/100, and excellent resistance against acid rain and MEK.				
ST	isostearyl acrylate copolymer acrylic pigment dispersant; coating pigment dispersibility let down stability; polyester weather resistant coating pigment colorability				
IT	Carbon black, uses RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses) (Monarch 1300; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer acrylic resins for pigment dispersants)				
IT	Coating materials (chem. resistant, weather-resistant; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer acrylic resins for pigment dispersants)				
IT	Polyesters, uses RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (coating binders; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer acrylic resins for pigment dispersants)				
IT	Epoxy resins, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (coating binders; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer acrylic resins for pigment dispersants)				
IT	Aminoplasts RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses) (crosslinkers; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer acrylic resins for pigment dispersants)				
IT	Dispersing agents (for pigments; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer acrylic resins for pigment dispersants)				
IT	Coating materials (weather-resistant, chem.-resistant; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer acrylic resins for pigment dispersants)				
IT	26588-80-7P, Butyl acrylate-2-hydroxyethyl methacrylate-methyl methacrylate-styrene copolymer 63150-02-7P, Butyl methacrylate-2-hydroxyethyl acrylate-methyl methacrylate-styrene copolymer 70144-11-5P, Butyl acrylate-glycidyl methacrylate-2-hydroxyethyl methacrylate-styrene copolymer 128171-41-5P, Acrylic acid-butyl methacrylate-isobutyl methacrylate-lauryl methacrylate-methacrylic acid-styrene copolymer 137317-81-8P, Adipic acid-hexahydrophthalic				

acid-1,6-hexanediol-isophthalic acid-neopentyl glycol-trimethylolpropane copolymer

RL: **IMF (Industrial manufacture)**; TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)

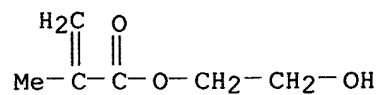
(binder resins; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer. acrylic resins for pigment dispersants)

- IT 9003-08-1, Nikalac MS 25 127464-53-3, Desmodur N 3500
RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)
(crosslinkers; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer. acrylic resins for pigment dispersants)
- IT 315688-90-5P 315688-91-6P, Dimethylaminoethyl methacrylate-2-hydroxyethyl methacrylate-isostearyl acrylate-methyl methacrylate-styrene copolymer 315688-92-7P, tert-Butylacrylamidosulfonic acid-butyl methacrylate-2-hydroxyethyl acrylate-isostearyl methacrylate-methyl methacrylate copolymer 315688-93-8P, tert-Butylacrylamidosulfonic acid-2-hydroxyethyl acrylate-isostearyl acrylate-methyl methacrylate copolymer 315688-94-9P, tert-Butylacrylamidosulfonic acid-butyl methacrylate-2-hydroxyethyl acrylate-isostearyl acrylate-methyl methacrylate-styrene copolymer 315688-95-0P, tert-Butylacrylamidosulfonic acid-butyl methacrylate-2-hydroxyethyl acrylate-2-hydroxyethyl methacrylate-isostearyl acrylate-methyl methacrylate copolymer 315688-96-1P, 2-Hydroxyethyl acrylate-isostearyl acrylate-trimethylmethacryloxyethylammonium chloride-methyl methacrylate copolymer 315688-97-2P, Butyl methacrylate-dimethylaminoethyl methacrylate-2-hydroxyethyl methacrylate-isostearyl acrylate-methyl methacrylate copolymer 316372-57-3P
RL: **IMF (Industrial manufacture)**; MOA (Modifier or additive use); PRP (Properties); **PREP (Preparation)**; USES (Uses)
(let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer. acrylic resins for pigment dispersants)
- IT 147-14-8, Cyanine Blue 5206 980-26-7, Hostaperm Pink EB Transparent
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer. acrylic resins for pigment dispersants)
- IT 12597-69-2, Steel, miscellaneous
RL: MSC (Miscellaneous)
(substrates; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer. acrylic resins for pigment dispersants)
- IT 26588-80-7P, Butyl acrylate-2-hydroxyethyl methacrylate-methyl methacrylate-styrene copolymer 63150-02-7P, Butyl methacrylate-2-hydroxyethyl acrylate-methyl methacrylate-styrene copolymer 70144-11-5P, Butyl acrylate-glycidyl methacrylate-2-hydroxyethyl methacrylate-styrene copolymer
RL: **IMF (Industrial manufacture)**; TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(binder resins; let-down-stable coatings contg. isostearyl (meth)acrylate-copolymer. acrylic resins for pigment dispersants)
- RN 26588-80-7 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with butyl 2-propenoate, ethenylbenzene and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

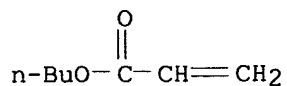
CM 1

CRN 868-77-9

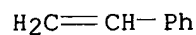
CMF C6 H10 O3



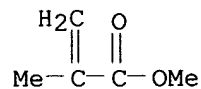
CM 2

CRN 141-32-2
CMF C7 H12 O2

CM 3

CRN 100-42-5
CMF C8 H8

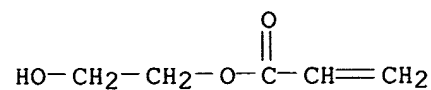
CM 4

CRN 80-62-6
CMF C5 H8 O2

RN 63150-02-7 HCAPLUS

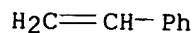
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ethenylbenzene,
2-hydroxyethyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA
INDEX NAME)

CM 1

CRN 818-61-1
CMF C5 H8 O3

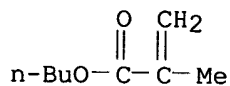
CM 2

CRN 100-42-5
CMF C8 H8



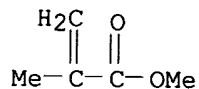
CM 3

CRN 97-88-1
CMF C8 H14 O2



CM 4

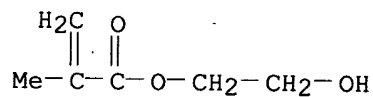
CRN 80-62-6
CMF C5 H8 O2



RN 70144-11-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with butyl
2-propenoate, ethenylbenzene and oxiranylmethyl 2-methyl-2-propenoate
(9CI) (CA INDEX NAME)

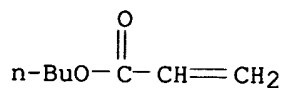
CM 1

CRN 868-77-9
CMF C6 H10 O3



CM 2

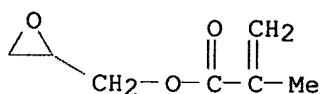
CRN 141-32-2
CMF C7 H12 O2



CM 3

CRN 106-91-2

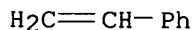
CMF C7 H10 O3



CM 4

CRN 100-42-5

CMF C8 H8



IT 315688-90-5P 315688-91-6P, Dimethylaminoethyl methacrylate-2-hydroxyethyl methacrylate-isostearyl acrylate-methyl methacrylate-styrene copolymer 315688-92-7P, tert-Butylacrylamidosulfonic acid-butyl methacrylate-2-hydroxyethyl acrylate-isostearyl methacrylate-methyl methacrylate copolymer 315688-93-8P, tert-Butylacrylamidosulfonic acid-2-hydroxyethyl acrylate-isostearyl acrylate-methyl methacrylate copolymer 315688-94-9P, tert-Butylacrylamidosulfonic acid-butyl methacrylate-2-hydroxyethyl acrylate-isostearyl acrylate-methyl methacrylate-styrene copolymer 315688-95-0P, tert-Butylacrylamidosulfonic acid-butyl methacrylate-2-hydroxyethyl acrylate-2-hydroxyethyl methacrylate-isostearyl acrylate-methyl methacrylate copolymer 315688-96-1P, 2-Hydroxyethyl acrylate-isostearyl acrylate-trimethylmethacryloxyethylammonium chloride-methyl methacrylate copolymer 315688-97-2P, Butyl methacrylate-dimethylaminoethyl methacrylate-2-hydroxyethyl methacrylate-isostearyl acrylate-methyl methacrylate copolymer 316372-57-3P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(let-down-stable coatings contg. isostearyl (meth)acrylate-copolymd. acrylic resins for pigment dispersants)

RN 315688-90-5 HCAPLUS

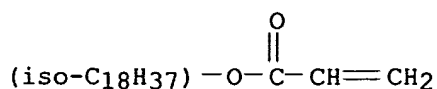
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with isoctadecyl 2-propenoate, methyl 2-methyl-2-propenoate and .alpha.-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)], graft (9CI) (CA INDEX NAME)

CM 1

CRN 93841-48-6

CMF C21 H40 O2

CCI IDS

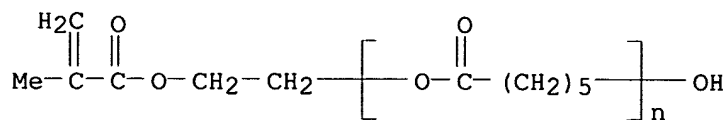


CM 2

CRN 81984-60-3

CMF (C6 H10 O2)_n C6 H10 O3

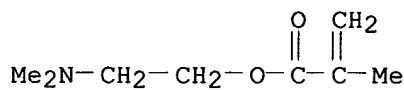
CCI PMS



CM 3

CRN 2867-47-2

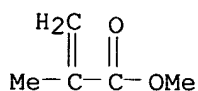
CMF C8 H15 N O2



CM 4

CRN 80-62-6

CMF C5 H8 O2



RN 315688-91-6 HCAPLUS

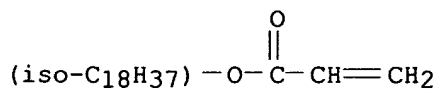
CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethenylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, isooctadecyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 93841-48-6

CMF C21 H40 O2

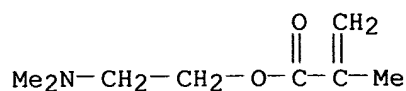
CCI IDS



CM 2

CRN 2867-47-2

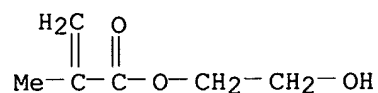
CMF C8 H15 N O2



CM 3

CRN 868-77-9

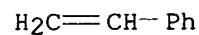
CMF C6 H10 O3



CM 4

CRN 100-42-5

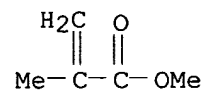
CMF C8 H8



CM 5

CRN 80-62-6

CMF C5 H8 O2



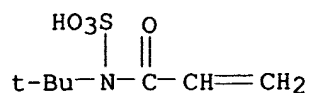
RN 315688-92-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
(1,1-dimethylethyl) (1-oxo-2-propenyl)sulfamic acid, 2-hydroxyethyl
2-propenoate, isooctadecyl 2-propenoate and methyl 2-methyl-2-propenoate
(9CI) (CA INDEX NAME)

CM 1

CRN 155401-75-5

CMF C7 H13 N O4 S

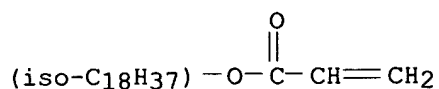


CM 2

CRN 93841-48-6

CMF C21 H40 O2

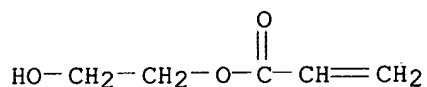
CCI IDS



CM 3

CRN 818-61-1

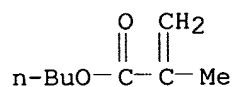
CMF C5 H8 O3



CM 4

CRN 97-88-1

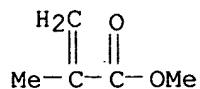
CMF C8 H14 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



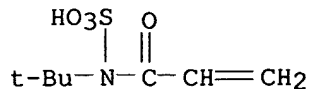
RN 315688-93-8 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
(1,1-dimethylethyl)(1-oxo-2-propenyl)sulfamic acid, 2-hydroxyethyl
2-propenoate and isooctadecyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 155401-75-5

CMF C7 H13 N O4 S

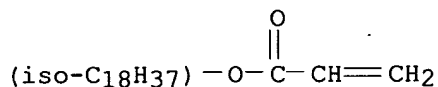


CM 2

CRN 93841-48-6

CMF C21 H40 O2

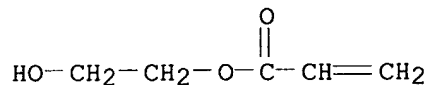
CCI IDS



CM 3

CRN 818-61-1

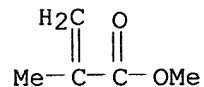
CMF C5 H8 O3



CM 4

CRN 80-62-6

CMF C5 H8 O2



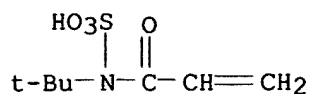
RN 315688-94-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
(1,1-dimethylethyl) (1-oxo-2-propenyl)sulfamic acid, ethenylbenzene,
2-hydroxyethyl 2-propenoate, isooctadecyl 2-propenoate and methyl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 155401-75-5

CMF C7 H13 N O4 S

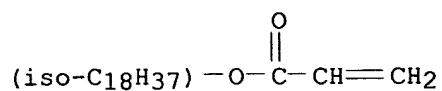


CM 2

CRN 93841-48-6

CMF C21 H40 O2

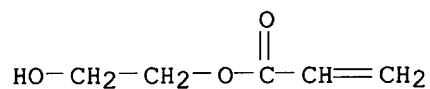
CCI IDS



CM 3

CRN 818-61-1

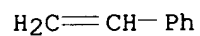
CMF C5 H8 O3



CM 4

CRN 100-42-5

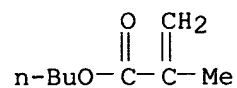
CMF C8 H8



CM 5

CRN 97-88-1

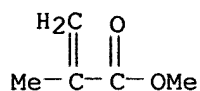
CMF C8 H14 O2



CM 6

CRN 80-62-6

CMF C5 H8 O2



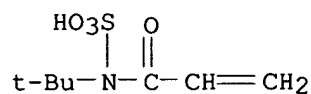
RN 315688-95-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
(1,1-dimethylethyl)(1-oxo-2-propenyl)sulfamic acid, 2-hydroxyethyl
2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, isooctadecyl
2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 155401-75-5

CMF C7 H13 N O4 S

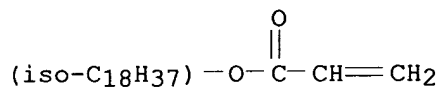


CM 2

CRN 93841-48-6

CMF C21 H40 O2

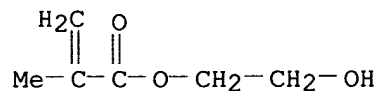
CCI IDS



CM 3

CRN 868-77-9

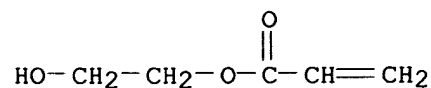
CMF C6 H10 O3



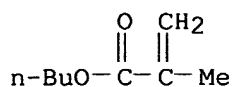
CM 4

CRN 818-61-1

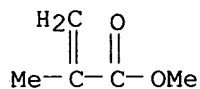
CMF C5 H8 O3



CM 5

CRN 97-88-1
CMF C8 H14 O2

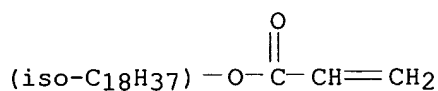
CM 6

CRN 80-62-6
CMF C5 H8 O2

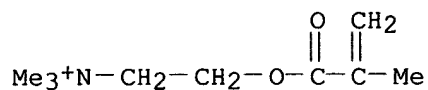
RN 315688-96-1 HCAPLUS

CN Ethanaminium, N,N,N-trimethyl-2-[(2-methyl-1-oxo-2-propenyl)oxy]-,
chloride, polymer with 2-hydroxyethyl 2-propenoate, isooctadecyl
2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

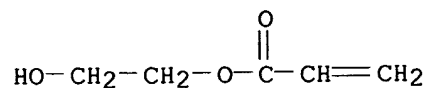
CRN 93841-48-6
CMF C21 H40 O2
CCI IDS

CM 2

CRN 5039-78-1
CMF C9 H18 N O2 . Cl● Cl⁻

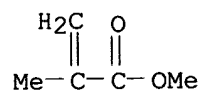
CM 3

CRN 818-61-1
CMF C5 H8 O3



CM 4

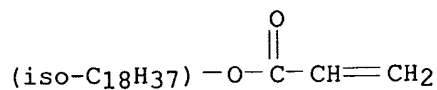
CRN 80-62-6
CMF C5 H8 O2



RN 315688-97-2 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
2-(dimethylamino)ethyl 2-methyl-2-propenoate, 2-hydroxyethyl
2-methyl-2-propenoate, isooctadecyl 2-propenoate and methyl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

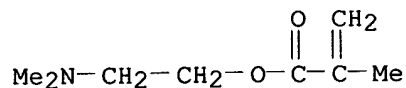
CM 1

CRN 93841-48-6
CMF C21 H40 O2
CCI IDS



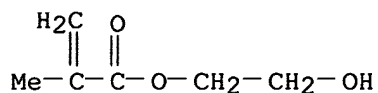
CM 2

CRN 2867-47-2
CMF C8 H15 N O2



CM 3

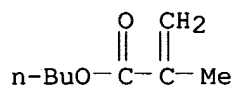
CRN 868-77-9
CMF C6 H10 O3



CM 4

CRN 97-88-1

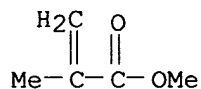
CMF C8 H14 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



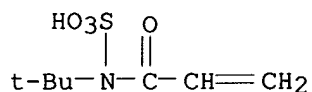
RN 316372-57-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
(1,1-dimethylethyl) (1-oxo-2-propenyl)sulfamic acid, isooctadecyl
2-propenoate and .alpha.-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-.omega.-
hydroxypoly[oxy(1-oxo-1,6-hexanediyl)], graft (9CI) (CA INDEX NAME)

CM 1

CRN 155401-75-5

CMF C7 H13 N O4 S

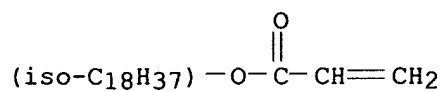


CM 2

CRN 93841-48-6

CMF C21 H40 O2

CCI IDS

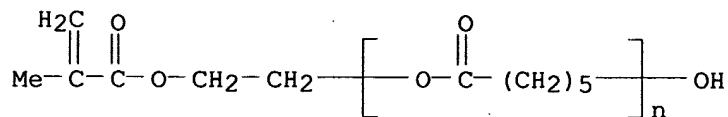


CM 3

CRN 81984-60-3

CMF (C6 H10 O2)n C6 H10 O3

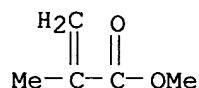
CCI PMS



CM 4

CRN 80-62-6

CMF C5 H8 O2



L23 ANSWER 21 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:819169 HCAPLUS

DN 133:351318

TI Modified styrene polymers for pigment dispersants, their preparation, and pigment **compositions** therewith

IN Suzuki, Haruko; Satake, Osamu; Uraki, Hisashi; Ikegami, Tomonori; Chosokabe, Hiroshi; Yoshida, Mitsuo

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08F212-08

ICS C08F008-14; C08F222-00; C08L025-04; C08L035-00; C09C003-10; C09D017-00; C09B067-20

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 35, 42

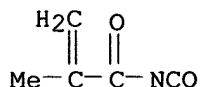
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000319333	A2	20001121	JP 1999-229547	19990816
PRAI	JP 1998-311538	A	19981102		
	JP 1998-311539	A	19981102		
	JP 1999-59563	A	19990308		

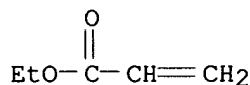
AB The polymers are reaction products of (A) polymers of arom. hydrophobic monomers having unsatd. double bonds and monomers having unsatd. double bonds and OH-reactive groups and (B) intermol. condensates of (C10-30 aliph.) oxycarboxylic acids. Pigment **compsns.** contg. the polymers and showing excellent water and abrasion resistance are also claimed. Thus, 100 parts styrene-maleic anhydride copolymer (SMA 1000, Mw 6000, acid value 480) was reacted with 103 parts 12-hydroxystearic acid at 80.degree. and dild. with cyclohexanone to give a polymer soln., 100 parts of which was kneaded with carbon black (Black Pearls 800) to give a

- pigment dispersion showing good storage stability after 1 mo at 60.degree.. Then, the dispersion was applied on a glass plate to give a color coating showing no blistering after 30 min in 80.degree. water and excellent abrasion resistance.
- ST styrene maleic anhydride polymer pigment dispersant; hydroxystearic acid condensate modified polymer dispersant; water resistant coating pigment dispersing polymer; abrasion resistant ink pigment dispersing polymer; oxycarboxylic acid condensate modified styrene polymer
- IT Carbon black, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(Black Pearls 800; oxycarboxylic acid-modified styrene polymers for pigment dispersants providing water- and abrasion-resistant inks or coatings)
- IT Coating materials
(abrasion- and water-resistant; oxycarboxylic acid-modified styrene polymers for pigment dispersants providing water- and abrasion-resistant inks or coatings)
- IT Water-resistant materials
Water-resistant materials
(inks, abrasion-resistant; oxycarboxylic acid-modified styrene polymers for pigment dispersants providing water- and abrasion-resistant inks or coatings)
- IT Dispersing agents
Pigments, nonbiological
(oxycarboxylic acid-modified styrene polymers for pigment dispersants providing water- and abrasion-resistant inks or coatings)
- IT Inks
Inks
(water-resistant, abrasion-resistant; oxycarboxylic acid-modified styrene polymers for pigment dispersants providing water- and abrasion-resistant inks or coatings)
- IT 147-14-8, Lionol Blue FG 7351
RL: TEM (Technical or engineered material use); USES (Uses)
(oxycarboxylic acid-modified styrene polymers for pigment dispersants providing water- and abrasion-resistant inks or coatings)
- IT 9011-13-6DP, SMA 2000, reaction products with oxycarboxylic acid condensates 25085-34-1DP, Acrylic acid-styrene copolymer, reaction products with oxycarboxylic acid condensates 27924-99-8DP, 12-Hydroxystearic acid homopolymer, reaction products with styrene-maleic anhydride copolymer 27925-02-6DP, Ricinoleic acid homopolymer, reaction products with styrene-maleic anhydride copolymer 106209-33-0DP, SMA 1000, reaction products with oxycarboxylic acid condensates 306770-51-4DP, reaction products with oxycarboxylic acid condensates 306770-52-5DP, reaction products with oxycarboxylic acid condensates
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(pigment dispersant; oxycarboxylic acid-modified styrene polymers for pigment dispersants providing water- and abrasion-resistant inks or coatings)
- IT 306770-52-5DP, reaction products with oxycarboxylic acid condensates
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(pigment dispersant; oxycarboxylic acid-modified styrene polymers for pigment dispersants providing water- and abrasion-resistant inks or coatings)
- RN 306770-52-5 HCAPLUS
- CN 2-Propenoic acid, ethyl ester, polymer with ethenylbenzene and 2-methyl-2-propenoyl isocyanate (9CI) (CA INDEX NAME)

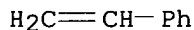
CM 1

CRN 4474-60-6
CMF C5 H5 N O2

CM 2

CRN 140-88-5
CMF C5 H8 O2

CM 3

CRN 100-42-5
CMF C8 H8

L23 ANSWER 22 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:475708 HCAPLUS

DN 133:106335

TI **Pigment compositions** containing polymers manufactured
by **atom-transfer-radical polymerization**

IN Auschra, Clemens; Muhlebach, Andreas; Eckstein, Ernst

PA Ciba Specialty Chemicals Holding Inc., Switz.

SO PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C08F293-00

ICS C08L053-00; C09D153-00; C08F002-38; C08F004-40; C09D011-00

CC 42-6 (Coatings, Inks, and Related Products)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000040630	A1	20000713	WO 1999-EP10395	19991227
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,				

x applicants

DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

BR 9916725 A 20010911 BR 1999-16725 19991227

EP 1155060 A1 20011121 EP 1999-967013 19991227

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO

PRAI EP 1998-124860 A 19981231

WO 1999-EP10395 W 19991227

AB Block copolymers prep'd. by living **polymn.** using the **atom**
-**transfer**-radical process are useful for prepn. of dispersions
of (in)org. **pigments** for coatings and inks. A typical block
copolymer was manuf'd. by **polymn.** of 7 mol Bu acrylate 75 min at 80.degree.
(exotherm 100-105.degree.) in the presence of CuBr, N,N,N',N'',N'''-
pentamethyldiethylenetriamine (I), and Me 2-bromopropionate, and **polymn.**
of 100 mmol 2-dimethylaminoethyl acrylate 80 min at 80.degree. (exotherm
87.degree.) in the presence of CuBr and I.

ST **pigment** dispersant **atom transfer** radical
polymn polymer; pentamethyldiethylenetriamine catalyst
atom transfer radical **polymn** acrylate; methyl
bromopropionate initiator **atom transfer** radical
polymn acrylate; copper bromide catalyst **atom**
transfer radical **polymn** acrylate; butyl acrylate
dimethylaminoethyl acrylate block copolymer dispersant **pigment**;
ink **pigment** polymeric dispersant; coating **pigment**
polymeric dispersant

IT Alkyl halides

RL: CAT (Catalyst use); USES (Uses)
(C1-8, **polymn.** catalyst; **pigment compns.** contg.
polymeric dispersants manuf'd. by **atom-**
transfer-radical **polymn.**)

IT Esters, uses

RL: CAT (Catalyst use); USES (Uses)
(C2-8 haloalkyl, **polymn.** catalyst; **pigment compns.**
contg. **polymeric** dispersants manuf'd. by **atom-**
transfer-radical **polymn.**)

IT Alkyl halides

RL: CAT (Catalyst use); USES (Uses)
(aralkyl halides, C6-15, **polymn.** catalyst; **pigment**
compns. contg. **polymeric** dispersants manuf'd. by
atom-transfer-radical **polymn.**)

IT Sulfonyl halides

Sulfonyl halides

RL: CAT (Catalyst use); USES (Uses)
(arenesulfonyl chlorides, **polymn.** catalyst; **pigment**
compns. contg. **polymeric** dispersants manuf'd. by
atom-transfer-radical **polymn.**)

IT Polymerization

(**atom transfer**, radical; **pigment**
compns. contg. **polymeric** dispersants manuf'd. by
atom-transfer-radical **polymn.**)

IT Polymers, uses

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM
(Technical or engineered material use); PREP (Preparation); USES (Uses)
(block, dispersant; **pigment compns.** contg.
polymeric dispersants manuf'd. by **atom-**
transfer-radical **polymn.**)

IT Polymerization catalysts

(block; **pigment compns.** contg. **polymeric**
dispersants manuf'd. by **atom-transfer**-radical
polymn.)

- IT Polyesters, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (coating; **pigment compns. contg. polymeric dispersants manufd. by atom-transfer-radical polymn.**)
- IT Lactones
 Nitriles, uses
 RL: CAT (Catalyst use); USES (Uses)
 (halo, polymn. catalyst; **pigment compns. contg. polymeric dispersants manufd. by atom-transfer-radical polymn.**)
- IT Coating materials
 Dispersing agents
 Inks
Pigments, nonbiological (pigment compns. contg. polymeric dispersants manufd. by atom-transfer-radical polymn.)
- IT Carbon black, uses
 Chromates
 Molybdates
 Silicates, uses
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (**pigment; pigment compns. contg. polymeric dispersants manufd. by atom-transfer-radical polymn.**)
- IT Aromatic compounds
 Aromatic compounds
 RL: CAT (Catalyst use); USES (Uses)
 (sulfonyl chlorides, polymn. catalyst; **pigment compns. contg. polymeric dispersants manufd. by atom-transfer-radical polymn.**)
- IT Group VB element compounds
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 (vanadates, **pigment; pigment compns. contg. polymeric dispersants manufd. by atom-transfer-radical polymn.**)
- IT 282527-38-2P
 RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (coating; **pigment compns. contg. polymeric dispersants manufd. by atom-transfer-radical polymn.**)
- IT 121264-61-7P, Butyl acrylate-2-hydroxyethyl acrylate block copolymer 168113-30-2DP, Butyl acrylate-tert-butyl acrylate block copolymer, hydrolyzed 168113-30-2P, Butyl acrylate-tert-butyl acrylate block copolymer 281198-01-4P, Butyl acrylate-2-(dimethylamino)ethyl acrylate block copolymer 281198-02-5P 281198-03-6P 281198-04-7P
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (dispersant; **pigment compns. contg. polymeric dispersants manufd. by atom-transfer-radical polymn.**)
- IT 121917-48-4, Acrylic acid-butyl acrylate block copolymer

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(dispersant; **pigment compns.** contg.
polymeric dispersants manufd. by **atom-transfer-radical polymn.**)

IT 281198-05-8

RL: TEM (Technical or engineered material use); USES (Uses)

(**pigment compns.** contg. **polymeric**
dispersants manufd. by **atom-transfer-radical**
polymn.)

IT 1306-23-6, Cadmium sulfide, uses 1308-38-9, Chromium oxide (Cr2O3), uses 1309-37-1, Ferric oxide, uses 1314-13-2, Zinc oxide, uses 1314-23-4, Zirconia, uses 1314-98-3, Zinc sulfide, uses 1317-33-5, Molybdenum sulfide (MoS2), uses 1344-28-1, Aluminum oxide, uses 7429-90-5, Aluminum, uses 7631-86-9, Silica, uses 7779-90-0, Zinc phosphate 7782-42-5, Graphite, uses 13463-67-7, Titania, uses 88949-33-1, Irgazin DPP Rubine TR 282118-12-1, Irgazin DPP Rubine FTX 282527-37-1, Cinquasia Scarlet RT 390D

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(**pigment; pigment compns.** contg.
polymeric dispersants manufd. by **atom-transfer-radical polymn.**)

IT 3030-47-5 5445-17-0, Methyl 2-bromopropionate 7787-70-4, Cuprous bromide

RL: CAT (Catalyst use); USES (Uses)

(**polymn. catalyst; pigment compns.** contg.
polymeric dispersants manufd. by **atom-transfer-radical polymn.**)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Ciba Sc Holding Ag; WO 9962961 A 1999 HCAPLUS
- (2) Dsm Nv; EP 0962473 A 1999 HCAPLUS
- (3) Du Pont; EP 0218436 A 1987 HCAPLUS
- (4) Du Pont; EP 0323181 A 1989 HCAPLUS
- (5) Du Pont; EP 0329873 A 1989 HCAPLUS
- (6) Du Pont; EP 0518225 A 1992 HCAPLUS
- (7) Du Pont; WO 9903938 A 1999 HCAPLUS
- (8) Madeleine, D; US 4925765 A 1990 HCAPLUS
- (9) Matyjaszewski, K; US 5789487 A 1998 HCAPLUS
- (10) Matyjaszewski, K; US 5807937 A 1998 HCAPLUS

IT 121264-61-7P, Butyl acrylate-2-hydroxyethyl acrylate block copolymer 281198-01-4P, Butyl acrylate-2-(dimethylamino)ethyl acrylate block copolymer 281198-02-5P 281198-03-6P 281198-04-7P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dispersant; **pigment compns.** contg.
polymeric dispersants manufd. by **atom-transfer-radical polymn.**)

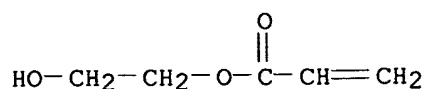
RN 121264-61-7 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-hydroxyethyl 2-propenoate, block (9CI) (CA INDEX NAME)

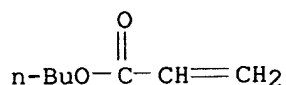
CM 1

CRN 818-61-1

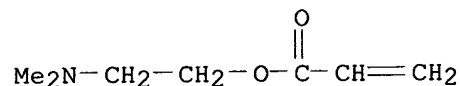
CMF C5 H8 O3



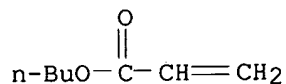
CM 2

CRN 141-32-2
CMF C7 H12 O2RN 281198-01-4 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl
2-propenoate, block (9CI) (CA INDEX NAME)

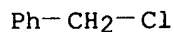
CM 1

CRN 2439-35-2
CMF C7 H13 N O2

CM 2

CRN 141-32-2
CMF C7 H12 O2RN 281198-02-5 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl
2-propenoate, block, compd. with (chloromethyl)benzene (9CI) (CA INDEX
NAME)

CM 1

CRN 100-44-7
CMF C7 H7 Cl

CM 2

CRN 281198-01-4

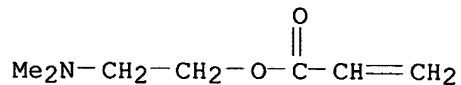
CMF (C7 H13 N O2 . C7 H12 O2)x

CCI PMS

CM 3

CRN 2439-35-2

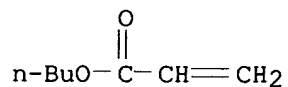
CMF C7 H13 N O2



CM 4

CRN 141-32-2

CMF C7 H12 O2



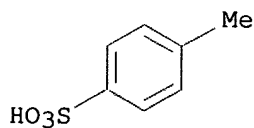
RN 281198-03-6 HCAPLUS

CN 2-Propenoic acid, butyl ester, polymer with 2-(dimethylamino)ethyl
2-propenoate, block, compd. with 4-methylbenzenesulfonic acid (9CI) (CA
INDEX NAME)

CM 1

CRN 104-15-4

CMF C7 H8 O3 S



CM 2

CRN 281198-01-4

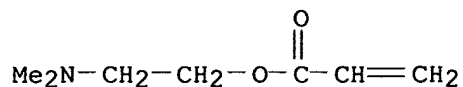
CMF (C7 H13 N O2 . C7 H12 O2)x

CCI PMS

CM 3

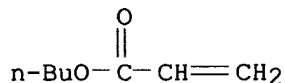
CRN 2439-35-2

CMF C7 H13 N O2



CM 4

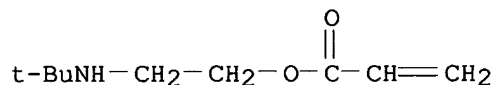
CRN 141-32-2
CMF C7 H12 O2



RN 281198-04-7 HCAPLUS
CN 2-Propenoic acid, butyl ester, polymer with 2-[(1,1-dimethylethyl)amino]ethyl 2-propenoate, block (9CI) (CA INDEX NAME)

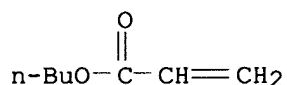
CM 1

CRN 14206-21-4
CMF C9 H17 N O2



CM 2

CRN 141-32-2
CMF C7 H12 O2



L23 ANSWER 23 OF 55 HCAPLUS COPYRIGHT 2002 ACS
AN 2000:351213 HCAPLUS
DN 132:349070
TI Photocurable **composition** based on urethane acrylate oligomer for fully cured pigmented coating, inks, and adhesives
IN Kamata, Hirotoishi; Watanabe, Takeo; Ooga, Kazuhiko; Koshikawa, Toshio
PA Showa Denko Kabushiki Kaisha, Japan
SO Eur. Pat. Appl., 30 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM C08G018-67
ICS C09D175-16
CC 42-10 (Coatings, Inks, and Related Products)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1002817	A2	20000524	EP 1999-122686	19991115
	EP 1002817	A3	20010321		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 2000212234	A2	20000802	JP 1999-221866	19990805
PRAI	JP 1998-326977	A	19981117		
	US 1999-124664P	P	19990316		
	JP 1999-221866	A	19990805		
AB	A photocurable compn. comprises (A) 100 parts ethylenically unsatd. group-contg. compd. of which 5-95% is a urethane (meth)acrylate oligomer obtained by the reaction of a polyisocyanate having .gtoreq.3 isocyanate groups with a hydroxyl group-contg. (meth)acrylic acid ester, (B) 0.001-5 parts cationic dye having an absorption max. 400-1200 nm and represented by formula (1) D+.Al-, where D+ represents a cation having an absorption max. 400-1200 nm, and Al- represents an anion, and (C) 0.005-10 parts quaternary borate-type compd. represented by R1-4B-.Z+, where R1-4 = alkyl, aryl, aralkyl, alkenyl, alkynyl, silyl, a heterocyclic group or a halogen, and Z+ represents a cation. A binder for a white coating paint was obtained by polymn. of Sumidur N3500 388, Blenmer AP-400 325, 2-hydroxyethyl acrylate 97, and Aronix M-305 248 parts in the presence of dibutyltin dilaurate.				
ST	photocurable coating polymer compn ; dye cationic photocurable compn ; borate quaternary sensitizer photocuring; acrylate polymer coating photocurable; urethane acrylate coating photocurable				
IT	Dyes (cationic; photocurable compn. based on urethane acrylate oligomer for fully cured pigmented coating, inks, and adhesives)				
IT	Crosslinking catalysts (photochem., cationic dye-quaternary borates; photocurable compn. based on urethane acrylate oligomer for fully cured pigmented coating, inks, and adhesives)				
IT	Coating materials (photocurable; photocurable compn. based on urethane acrylate oligomer for fully cured pigmented coating, inks, and adhesives)				
IT	Polyurethanes, uses RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (polyoxyalkylene-, acrylates, oligomeric; photocurable compn. based on urethane acrylate oligomer for fully cured pigmented coating, inks, and adhesives)				
IT	269734-26-1P 269734-27-2P 269734-28-3P 269734-29-4P 269734-30-7P 269734-41-0P 269734-42-1P 269734-43-2P 269734-44-3P 269745-29-1P 269745-30-4P 269745-31-5P 269745-32-6P 269745-33-7P 269745-39-3P 269745-40-6P 269745-41-7P 269745-42-8P RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (binder; photocurable compn. based on urethane acrylate oligomer for fully cured pigmented coating, inks, and adhesives)				
IT	3648-36-0 6441-82-3 27564-02-9 115449-80-4 193146-98-4 269734-40-9 RL: CAT (Catalyst use); USES (Uses) (cationic dye; photocurable compn. based on urethane acrylate oligomer for fully cured pigmented coating, inks, and adhesives)				
IT	269734-31-8P 269734-32-9P 269734-33-0P 269734-35-2P 269734-36-3P 269734-37-4P				

269734-38-5P 269734-39-6P 269745-34-8P
269745-35-9P 269745-36-0P 269745-37-1P
269745-38-2P

RL: **IMF** (Industrial manufacture); PRP (Properties); TEM
(Technical or engineered material use); **PREP** (Preparation); USES
(Uses)

(coating; photocurable **compn.** based on urethane acrylate
oligomer for fully cured **pigmented** coating, inks, and
adhesives)

IT 120307-06-4, Tetrabutylammonium butyltriphenylborate 189947-86-2
211675-36-4 219125-19-6

RL: CAT (Catalyst use); USES (Uses)

(photocurable **compn.** based on urethane acrylate oligomer for
fully cured pigmented coating, inks, and adhesives)

IT 269734-26-1P 269734-27-2P 269734-28-3P
269734-29-4P 269734-30-7P 269734-41-0P
269734-42-1P 269734-43-2P 269734-44-3P
269745-29-1P 269745-30-4P 269745-31-5P
269745-32-6P 269745-33-7P 269745-39-3P
269745-40-6P 269745-41-7P 269745-42-8P

RL: **IMF** (Industrial manufacture); RCT (Reactant); **PREP**
(Preparation); RACT (Reactant or reagent)

(binder; photocurable **compn.** based on urethane acrylate
oligomer for fully cured **pigmented** coating, inks, and
adhesives)

RN 269734-26-1 HCAPLUS

CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-
propanediyl ester, polymer with 2-hydroxyethyl 2-propenoate,
.alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)]
and Sumidur N 3500 (9CI) (CA INDEX NAME)

CM 1

CRN 127464-53-3

CMF Unspecified

CCI PMS, MAN

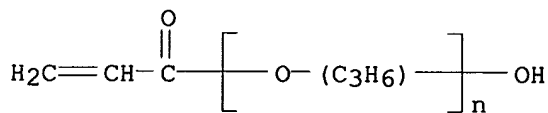
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 50858-51-0

CMF (C3 H6 O)_n C3 H4 O2

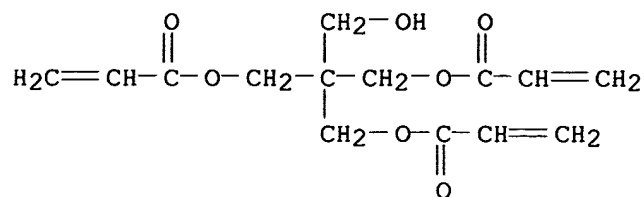
CCI IDS, PMS



CM 3

CRN 3524-68-3

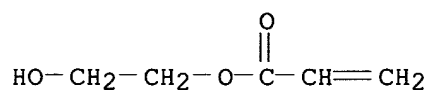
CMF C14 H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



RN 269734-27-2 HCAPLUS

CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-hydroxypropyl 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and Sumidur N 3500 (9CI) (CA INDEX NAME)

CM 1

CRN 127464-53-3

CMF Unspecified

CCI PMS, MAN

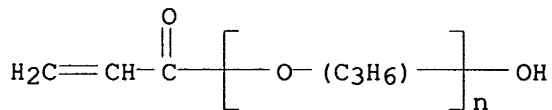
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 50858-51-0

CMF (C3 H6 O)_n C3 H4 O2

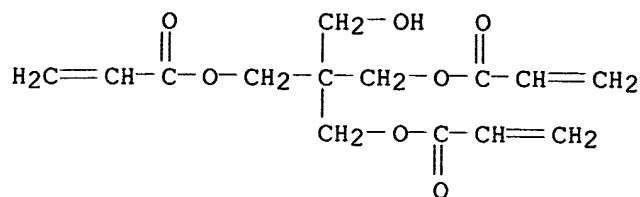
CCI IDS, PMS



CM 3

CRN 3524-68-3

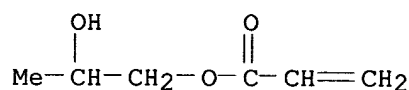
CMF C14 H18 O7



CM 4

CRN 999-61-1

CMF C6 H10 O3



RN 269734-28-3 HCAPLUS

CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-hydroxyethyl 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and Sumidur N 3200 (9CI) (CA INDEX NAME)

CM 1

CRN 110539-63-4

CMF Unspecified

CCI MAN

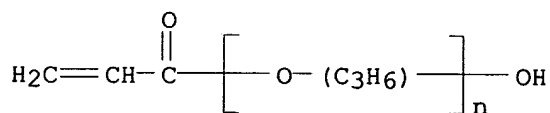
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 50858-51-0

CMF (C3 H6 O)_n C3 H4 O2

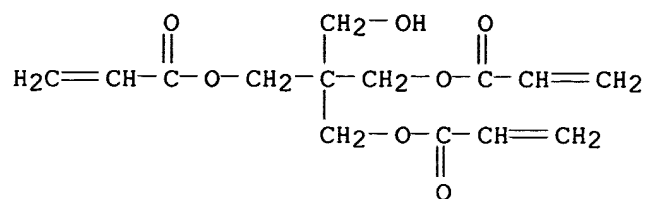
CCI IDS, PMS



CM 3

CRN 3524-68-3

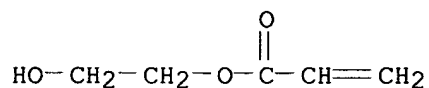
CMF C14' H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



RN 269734-29-4 HCAPLUS

CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-hydroxyethyl 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and Sumidur HT (9CI) (CA INDEX NAME)

CM 1

CRN 92529-50-5

CMF Unspecified

CCI MAN

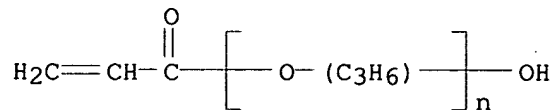
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 50858-51-0

CMF (C3 H6 O)_n C3 H4 O2

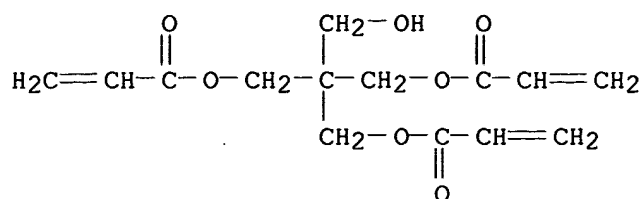
CCI IDS, PMS



CM 3

CRN 3524-68-3

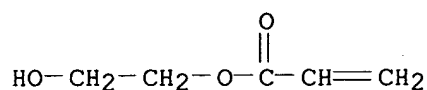
CMF C14 H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



RN 269734-30-7 HCAPLUS

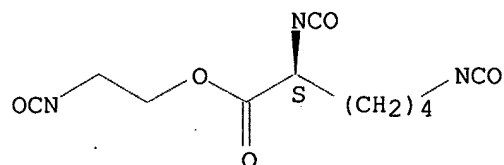
CN Hexanoic acid, 2,6-diisocyanato-, 2-isocyanatoethyl ester, (2S)-, polymer with 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 77704-50-8

CMF C11 H13 N3 O5

Absolute stereochemistry.

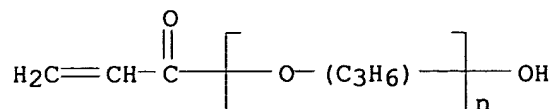


CM 2

CRN 50858-51-0

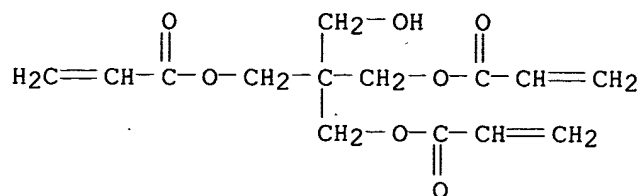
CMF (C3 H6 O)_n C3 H4 O2

CCI IDS, PMS



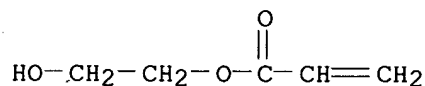
CM 3

CRN 3524-68-3
CMF C14 H18 O7



CM 4

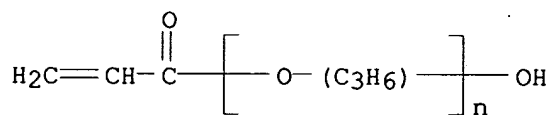
CRN 818-61-1
CMF C5 H8 O3



RN 269734-41-0 HCAPLUS
CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-hydroxyethyl 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 1,3,5-tris(6-isocyanatohexyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (9CI) (CA INDEX NAME)

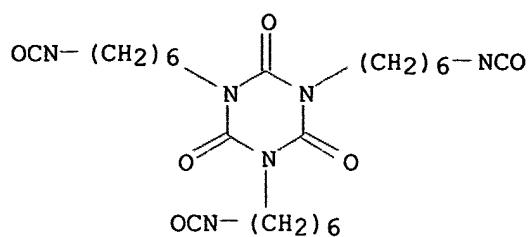
CM 1

CRN 50858-51-0
CMF (C3 H6 O)_n C3 H4 O2
CCI IDS, PMS



CM 2

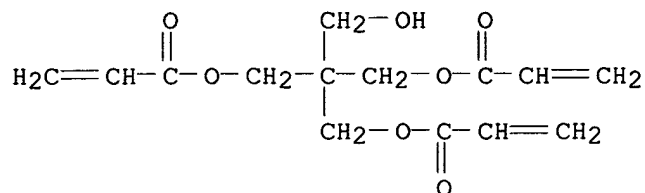
CRN 3779-63-3
CMF C24 H36 N6 O6



CM 3

CRN 3524-68-3

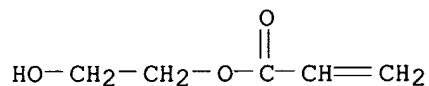
CMF C14 H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



RN 269734-42-1 HCAPLUS

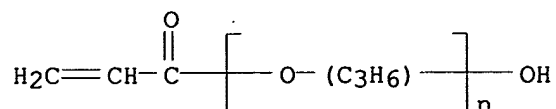
CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-hydroxypropyl 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 1,3,5-tris(6-isocyanatohexyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (9CI) (CA INDEX NAME)

CM 1

CRN 50858-51-0

$$\text{CMF} \quad (\text{C}_3 \text{ H}_6 \text{ O})_n \text{ C}_3 \text{ H}_4 \text{ O}_2$$

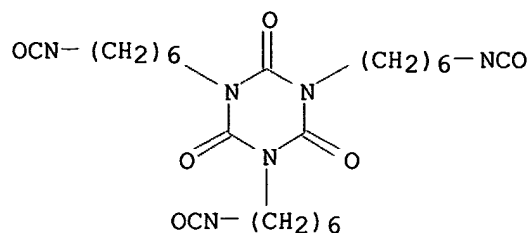
CCI IDS, PMS



CM 2

CRN 3779-63-3

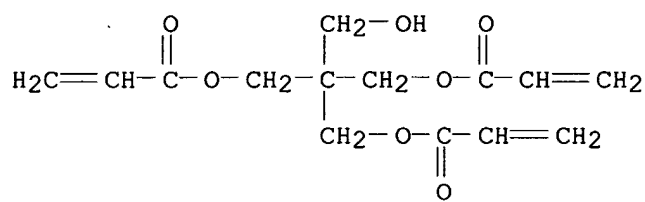
CMF C24 H36 N6 O6



CM 3

CRN 3524-68-3

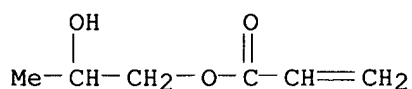
CMF C14 H18 O7



CM 4

CRN 999-61-1

CMF C6 H10 O3



RN 269734-43-2 HCAPLUS

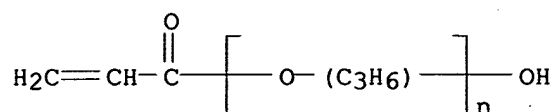
CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-hydroxyethyl 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and N,N',2-tris(6-isocyanatohexyl)imidodicarbonic diamide (9CI) (CA INDEX NAME)

CM 1

CRN 50858-51-0

CMF (C3 H6 O)n C3 H4 O2

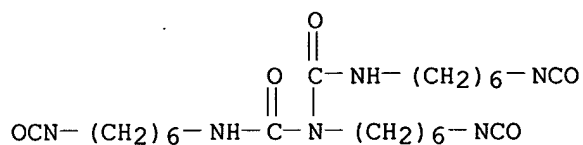
CCI IDS, PMS



CM 2

CRN 4035-89-6

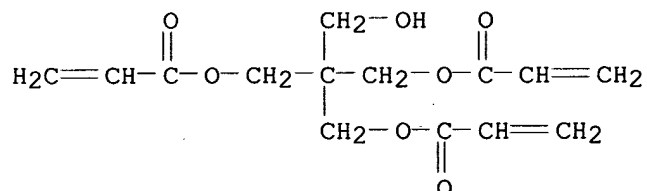
CMF C23 H38 N6 O5



CM 3

CRN 3524-68-3

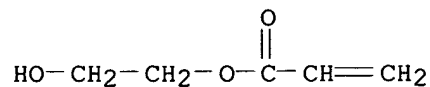
CMF C14 H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



RN 269734-44-3 HCAPLUS

CRN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-hydroxyethyl 2-propenoate, LTI (isocyanate) and .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 183906-32-3

CMF Unspecified

CCI PMS, MAN

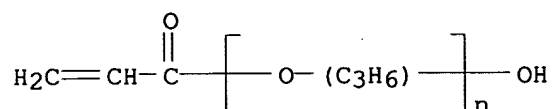
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 50858-51-0

$$\text{CMF} \quad (\text{C}_3 \text{ H}_6 \text{ O})_n \text{ C}_3 \text{ H}_4 \text{ O}_2$$

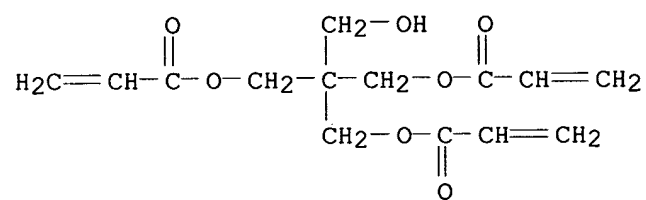
CCI IDS, PMS



CM 3

CRN 3524-68-3

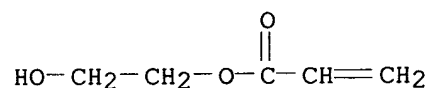
CMF C14 H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



RN 269745-29-1 HCAPLUS

Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl
ester, polymer with 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[1-
oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and Sumidur N
3500 (9CI) (CA INDEX NAME)

CM 1

CRN 127464-53-3

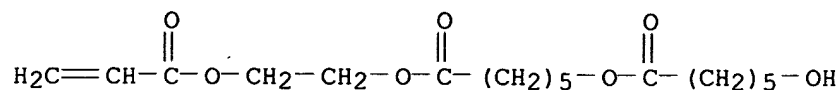
CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

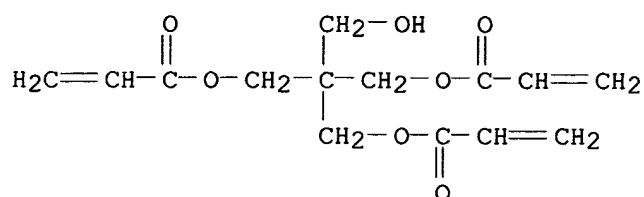
CM 2

CRN 80413-52-1
CMF C17 H28 O7



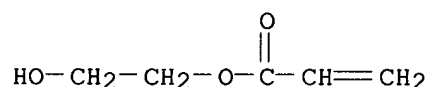
CM 3

CRN 3524-68-3
CMF C14 H18 O7



CM 4

CRN 818-61-1
CMF C5 H8 O3



RN 269745-30-4 HCAPLUS

CN Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl ester, polymer with 2-(hydroxymethyl)-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and Sumidur N 3500 (9CI) (CA INDEX NAME)

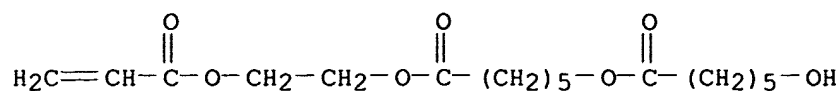
CM 1

CRN 127464-53-3
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 80413-52-1
CMF C17 H28 O7

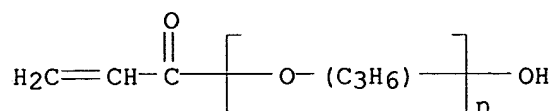


CM 3

CRN 50858-51-0

CMF (C3 H6 O)_n C3 H4 O2

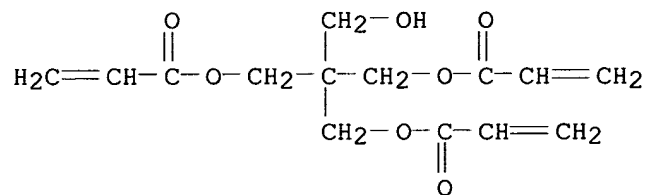
CCI IDS, PMS



CM 4

CRN 3524-68-3

CMF C14 H18 O7



RN 269745-31-5 HCAPLUS

CN Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl ester, polymer with 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and Sumidur N 3200 (9CI) (CA INDEX NAME)

CM 1

CRN 110539-63-4

CMF Unspecified

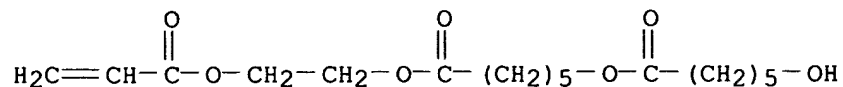
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 80413-52-1

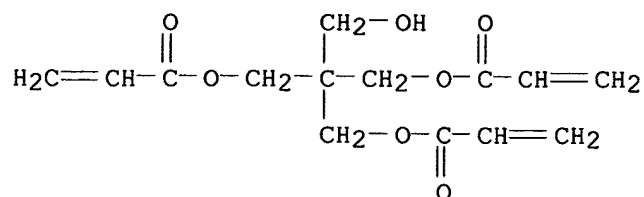
CMF C17 H28 O7



CM 3

CRN 3524-68-3

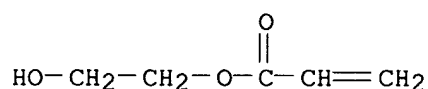
CMF C14 H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



RN 269745-32-6 HCAPLUS

CN Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl ester, polymer with 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and Sumidur HT (9CI) (CA INDEX NAME)

CM 1

CRN 92529-50-5

CMF Unspecified

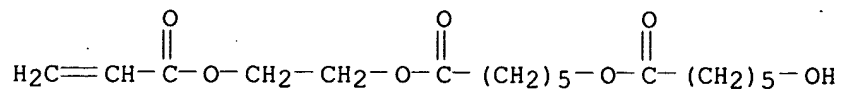
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 80413-52-1

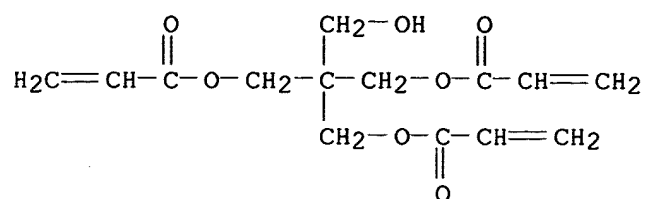
CMF C17 H28 O7



CM 3

CRN 3524-68-3

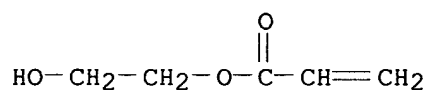
CMF C14 H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



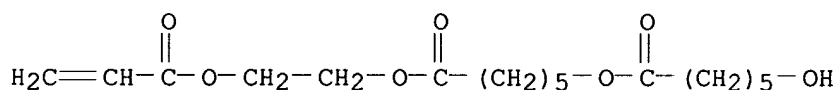
RN 269745-33-7 HCAPLUS

CN Hexanoic acid, 2,6-diisocyanato-, 2-isocyanatoethyl ester, (2S)-, polymer with 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl 6-hydroxyhexanoate (9CI) (CA INDEX NAME)

CM 1

CRN 80413-52-1

CMF C17 H28 O7

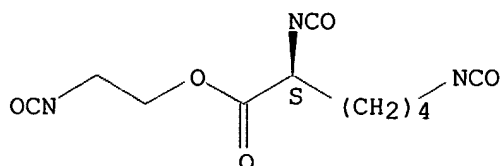


CM 2

CRN 77704-50-8

CMF C11 H13 N3 O5

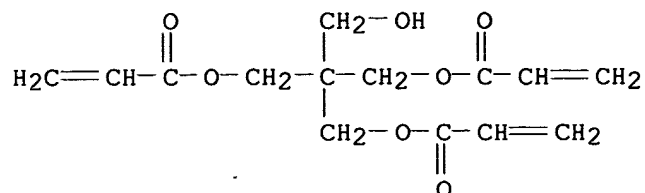
Absolute stereochemistry.



CM 3

CRN 3524-68-3

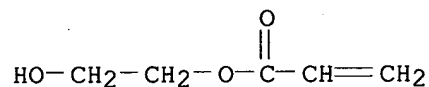
CMF C14 H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



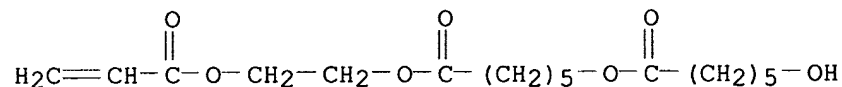
RN 269745-39-3 HCAPLUS

CN Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl ester, polymer with 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 1,3,5-tris(6-isocyanatohexyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (9CI) (CA INDEX NAME)

CM 1

CRN 80413-52-1

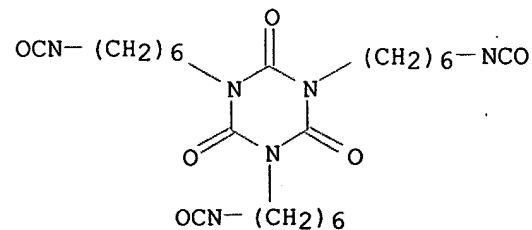
CMF C17 H28 O7



CM 2

CRN 3779-63-3

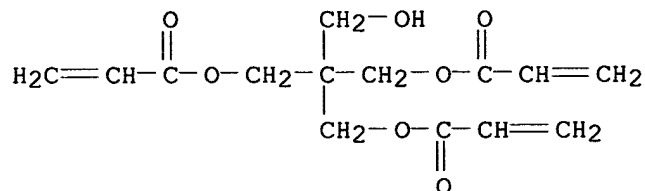
CMF C24 H36 N6 O6



CM 3

CRN 3524-68-3

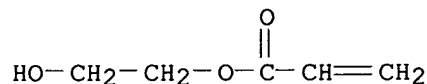
CMF C14 H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



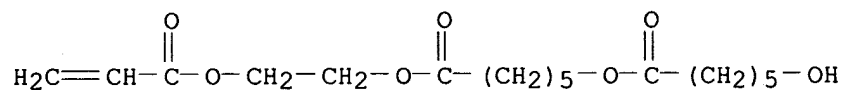
RN 269745-40-6 HCAPLUS

CN Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl ester, polymer with 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and 1,3,5-tris(6-isocyanatohexyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione (9CI) (CA INDEX NAME)

CM 1

CRN 80413-52-1

CMF C17 H28 O7

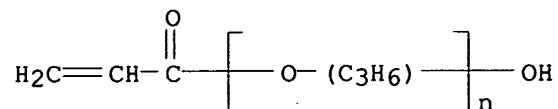


CM 2

CRN 50858-51-0

CMF (C3 H6 O)_n C3 H4 O2

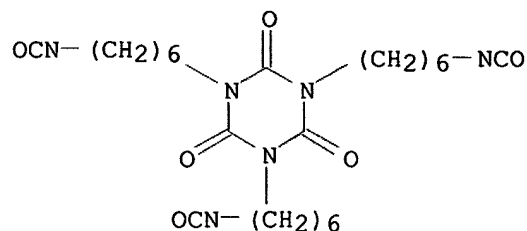
CCI IDS, PMS



CM 3

CRN 3779-63-3

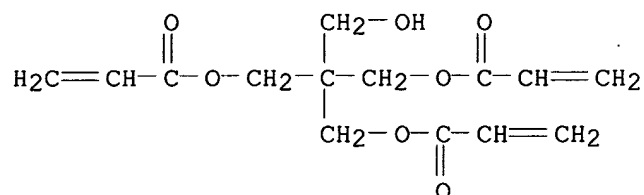
CMF C24 H36 N6 O6



CM 4

CRN 3524-68-3

CMF C14 H18 O7



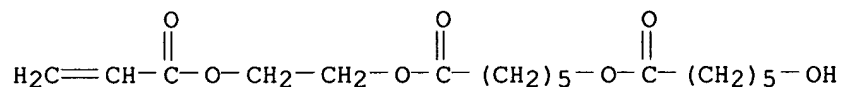
RN 269745-41-7 HCAPLUS

CN Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl ester, polymer with 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and N,N',2-tris(6-isocyanatohexyl)imidodicarbonic diamide (9CI) (CA INDEX NAME)

CM 1 .

CRN 80413-52-1

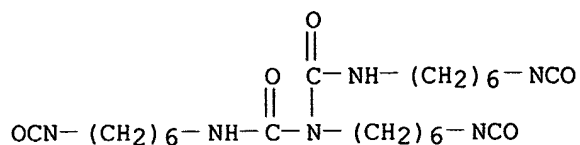
CMF C17 H28 O7



CM 2

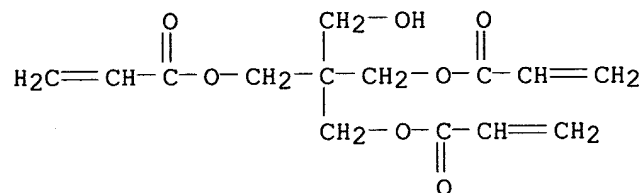
CRN 4035-89-6

CMF C23 H38 N6 O5



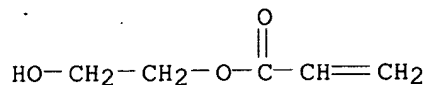
CM 3

CRN 3524-68-3
CMF C14 H18 O7



CM 4

CRN 818-61-1
CMF C5 H8 O3



RN 269745-42-8 HCAPLUS

CN Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl ester, polymer with 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and LTI (isocyanate) (9CI) (CA INDEX NAME)

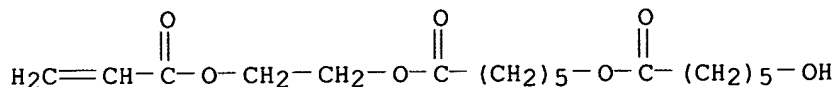
CM 1

CRN 183906-32-3
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

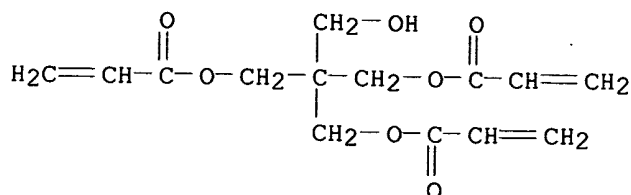
CRN 80413-52-1
CMF C17 H28 O7



CM 3

CRN 3524-68-3

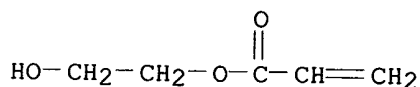
CMF C14 H18 O7



CM 4

CRN 818-61-1

CMF C5 H8 O3



IT 269734-31-8P 269734-32-9P 269734-33-0P
 269734-35-2P 269734-36-3P 269734-37-4P
 269734-38-5P 269734-39-6P 269745-34-8P
 269745-35-9P 269745-36-0P 269745-37-1P
 269745-38-2P

RL: IMF (Industrial manufacture); PRP (Properties); TEM
 (Technical or engineered material use); PREP (Preparation); USES
 (Uses)

(coating; photocurable compn. based on urethane acrylate
 oligomer for fully cured pigmented coating, inks, and
 adhesives)

RN 269734-31-8 HCAPLUS

CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-
 propanediyl ester, polymer with N-ethenylacetamide, .alpha.-hydro-.omega.-
 [(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) ether with
 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-hydroxyethyl
 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-
 1,2-ethanediyl)] and Sumidur N 3500 (9CI) (CA INDEX NAME)

CM 1

CRN 127464-53-3

CMF Unspecified

CCI PMS, MAN

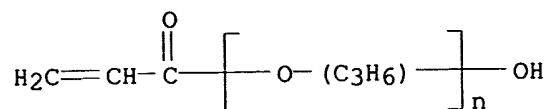
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 50858-51-0

CMF (C3 H6 O)n C3 H4 O2

CCI IDS, PMS



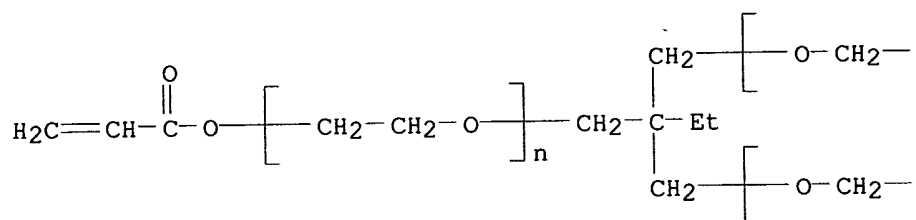
CM 3

CRN 28961-43-5

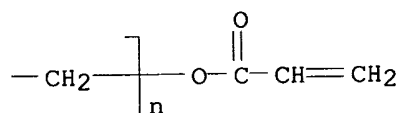
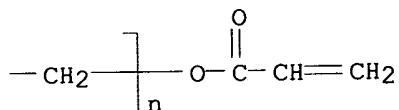
CMF (C2 H4 O)n (C2 H4 O)n (C2 H4 O)n C15 H20 O6

CCI PMS

PAGE 1-A



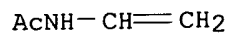
PAGE 1-B



CM 4

CRN 5202-78-8

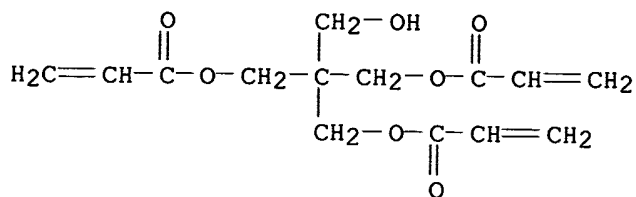
CMF C4 H7 N O



CM 5

CRN 3524-68-3

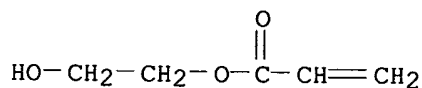
CMF C14 H18 O7



CM 6

CRN 818-61-1

CMF C5 H8 O3



RN 269734-32-9 HCAPLUS

CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 1-ethenylhexahydro-2H-azepin-2-one, .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-hydroxyethyl 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and Sumidur N 3500 (9CI) (CA INDEX NAME)

CM 1

CRN 127464-53-3

CMF Unspecified

CCI PMS, MAN

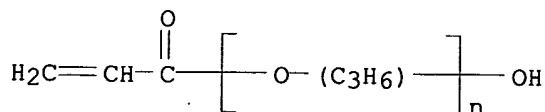
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 50858-51-0

CMF (C3 H6 O)_n C3 H4 O2

CCI IDS, PMS



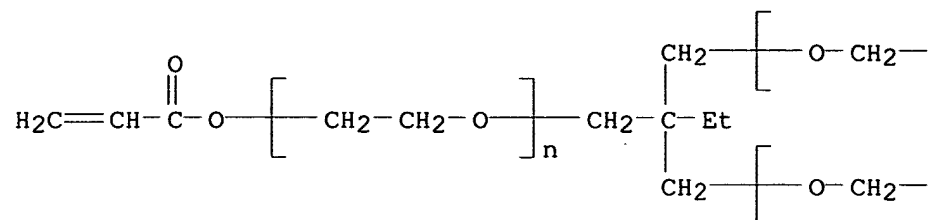
CM 3

CRN 28961-43-5

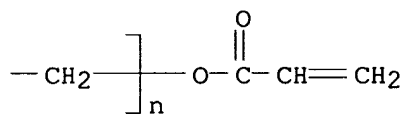
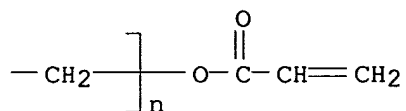
CMF (C2 H4 O)_n (C2 H4 O)_n (C2 H4 O)_n C15 H20 O6

CCI PMS

PAGE 1-A



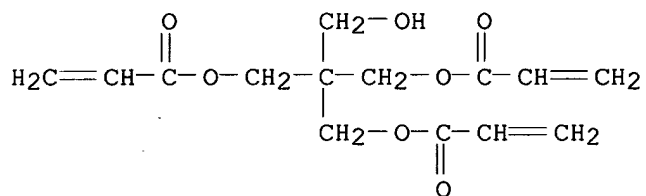
PAGE 1-B



CM 4

CRN 3524-68-3

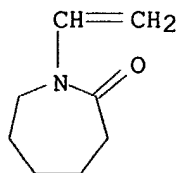
CMF C14 H18 O7



CM 5

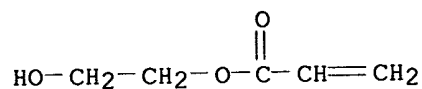
CRN 2235-00-9

CMF C8 H13 N O



CM 6

CRN 818-61-1
CMF C5 H8 O3



RN 269734-33-0 HCAPLUS
CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-hydroxyethyl 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], 2-phenoxyethyl 2-propenoate and Sumidur N 3500 (9CI) (CA INDEX NAME)

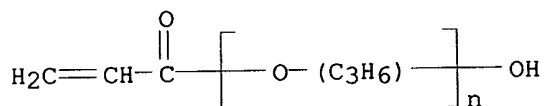
CM 1

CRN 127464-53-3
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

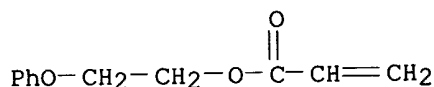
CM 2

CRN 50858-51-0
CMF (C3 H6 O)_n C3 H4 O2
CCI IDS, PMS



CM 3

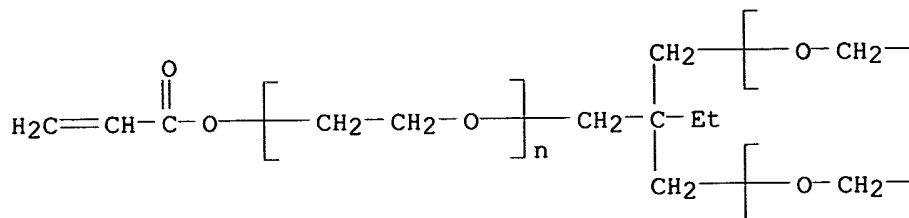
CRN 48145-04-6
CMF C11 H12 O3



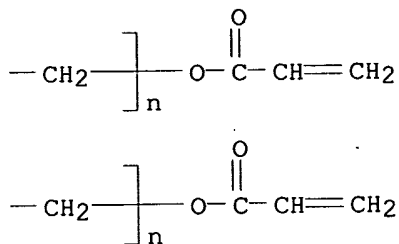
CM 4

CRN 28961-43-5
CMF (C2 H4 O)_n (C2 H4 O)_n (C2 H4 O)_n C15 H20 O6
CCI PMS

PAGE 1-A



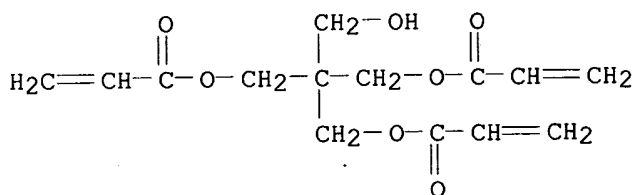
PAGE 1-B



CM 5

CRN 3524-68-3

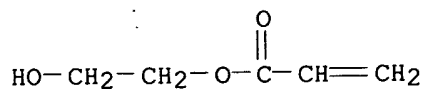
CMF C14 H18 O7



CM 6

CRN 818-61-1

CMF C5 H8 O3



RN 269734-35-2 HCAPLUS

CN 2-Propenoic acid, [2-ethyl-2-[[methyl-2-[(1-oxo-2-propenyl)oxy]ethoxy]methyl]-1,3-propanediyl]bis[oxy(methyl-2,1-ethanediyl)] ester, polymer with N-ethenylformamide, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, 2-hydroxypropyl 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-

hydroxypoly[oxy(methyl-1,2-ethanediyl)] and Sumidur N 3500 (9CI) (CA
INDEX NAME)

CM 1

CRN 127464-53-3

CMF	Unspecified
-----	-------------

CCI PMS, MAN

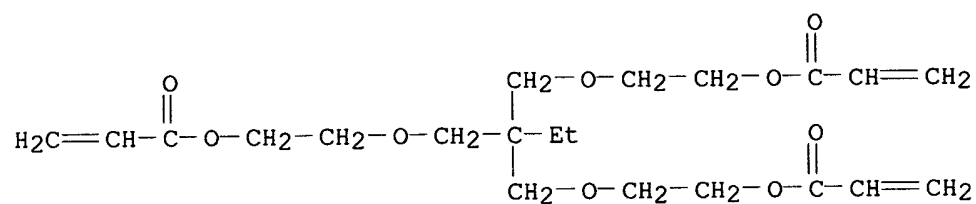
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 100289-84-7

CMF C24 H38 O9

CCI IDS



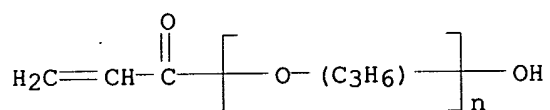
3 (D1-Me)

CM 3

CRN 50858-51-0

$$\text{CMF} \quad (\text{C}_3 \text{ H}_6 \text{ O})_n \text{ C}_3 \text{ H}_4 \text{ O}_2$$

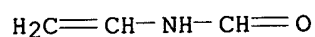
CCI IDS, PMS



CM 4

CRN 13162-05-5

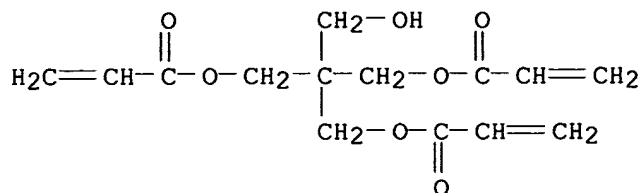
CMF C3 H5 N O



CM 5

CRN 3524-68-3

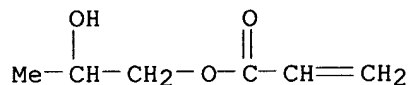
CMF C14 H18 O7



CM 6

CRN 999-61-1

CMF C6 H10 O3



RN 269734-36-3 HCAPLUS

CN 2-Propenoic acid, 1,6-hexanediyl ester, polymer with .alpha.-hydro-.omega.-
 [(1-oxo-2-propenyl)oxy]poly(oxy-1,2-ethanediyl) ether with
 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-hydroxyethyl
 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-
 propanediyl di-2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-
 hydroxypoly[oxy(methyl-1,2-ethanediyl)] and Sumidur N 3500 (9CI) (CA
 INDEX NAME)

CM 1

CRN 127464-53-3

CMF Unspecified

CCI PMS, MAN

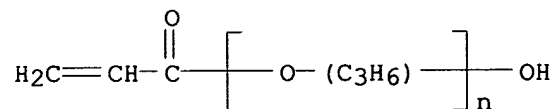
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 50858-51-0

CMF (C3 H6 O)_n C3 H4 O2

CCI IDS, PMS



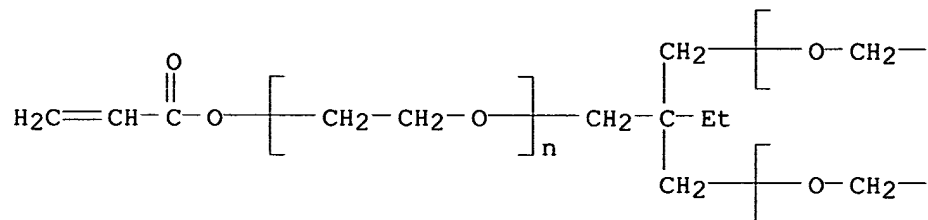
CM 3

CRN 28961-43-5

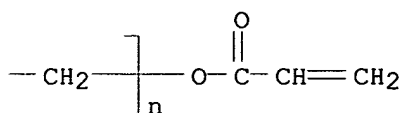
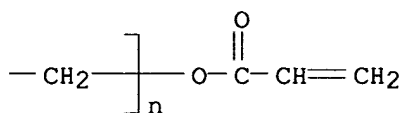
CMF (C2 H4 O)_n (C2 H4 O)_n (C2 H4 O)_n C15 H20 O6

CCI PMS

PAGE 1-A



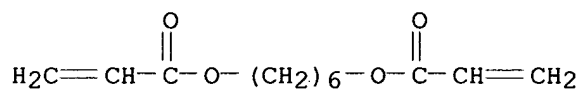
PAGE 1-B



CM 4

CRN 13048-33-4

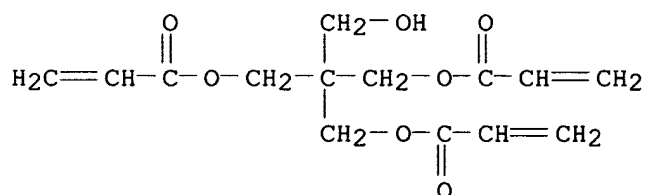
CMF C12 H18 O4



CM 5

CRN 3524-68-3

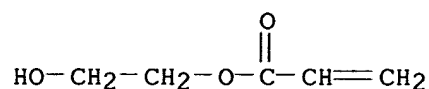
CMF C14 H18 O7



CM 6

CRN 818-61-1

CMF C5 H8 O3



RN 269734-37-4 HCAPLUS

CN 2-Propenoic acid, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with N-ethenylacetamide, 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and Sumidur N 3200 (9CI) (CA INDEX NAME)

CM 1

CRN 110539-63-4

CMF	Unspecified
-----	-------------

CCI MAN

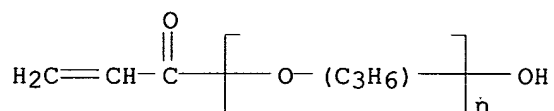
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 50858-51-0

$$\text{CMF} \quad (\text{C}_3 \text{ H}_6 \text{ O})_n \text{ C}_3 \text{ H}_4 \text{ O}_2$$

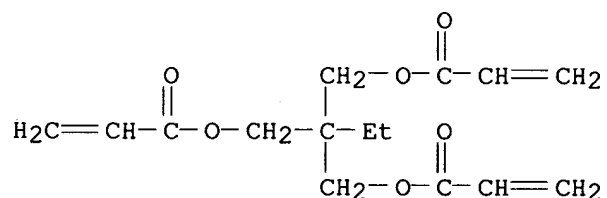
CCI IDS, PMS



CM 3

CRN 15625-89-5

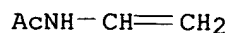
CMF C15 H20 O6



CM 4

CRN 5202-78-8

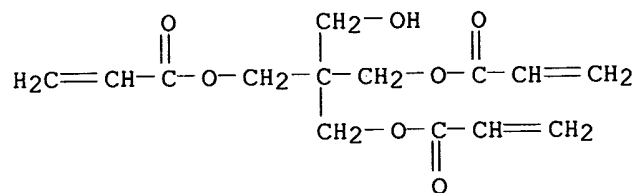
CMF C4 H7 N O



CM 5

CRN 3524-68-3

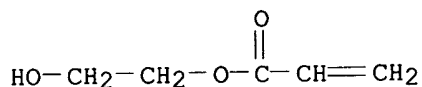
CMF C14 H18 O7



CM 6

CRN 818-61-1

CMF C5 H8 O3



RN 269734-38-5 HCAPLUS

CN 2-Propenoic acid, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester, polymer with 2-hydroxyethyl 2-propenoate, .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha.''-1,2,3-propanetriyltris[.omega.-[(1-oxo-2-propenyl)oxy]poly[oxy(methyl-1,2-ethanediyl)]]], Sumidur HT and (tetrahydro-2-furanyl)methyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 92529-50-5

CMF Unspecified

CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

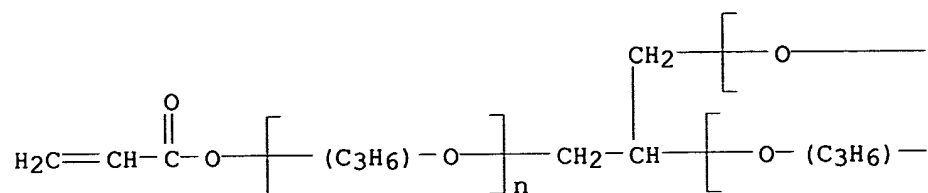
CM 2

CRN 52408-84-1

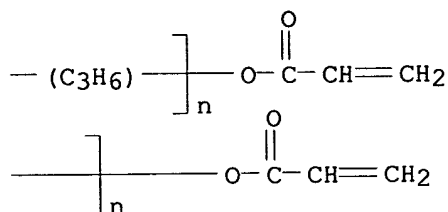
CMF (C3 H6 O)n (C3 H6 O)n (C3 H6 O)n C12 H14 O6

CCI IDS, PMS

PAGE 1-A



PAGE 1-B

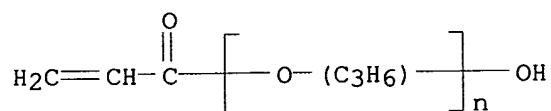


CM 3

CRN 50858-51-0

CMF (C3 H6 O)_n C3 H4 O2

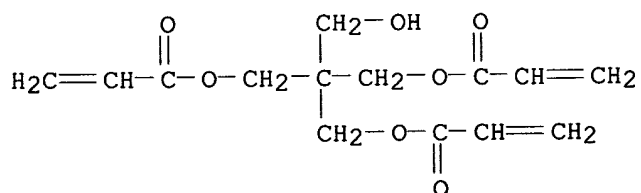
CCI IDS, PMS



CM 4

CRN 3524-68-3

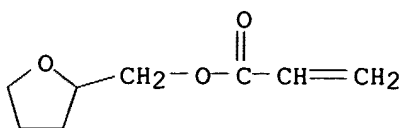
CMF C14 H18 O7



CM 5

CRN 2399-48-6

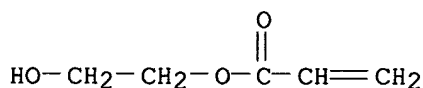
CMF C8 H12 O3



CM 6

CRN 818-61-1

CMF C5 H8 O3



RN 269734-39-6 HCAPLUS

CN Hexanoic acid, 2,6-diisocyanato-, 2-isocyanatoethyl ester, (2S)-, polymer with Ebecryl 7100, [2-ethyl-2-[[methyl-2-[(1-oxo-2-propenyl)oxy]ethoxy)methyl]-1,3-propanediyl]bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate, 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, (1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate and .alpha.-(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

CM 1

CRN 135991-03-6

CMF Unspecified

CCI PMS, MAN

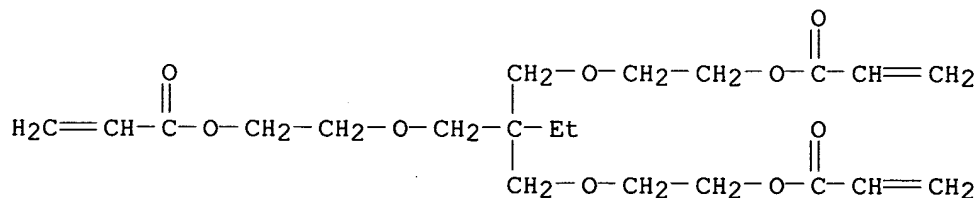
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 100289-84-7

CMF C24 H38 O9

CCI IDS



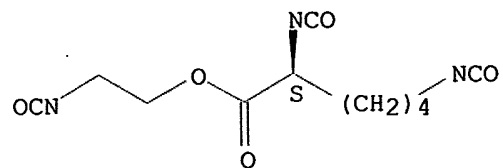
3 (D1-Me)

CM 3

CRN 77704-50-8

CMF C11 H13 N3 O5

Absolute stereochemistry.

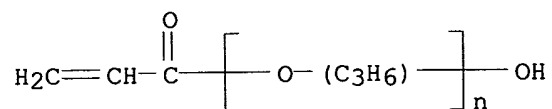


CM 4

CRN 50858-51-0

CMF (C3 H6 O)_n C3 H4 O2

CCI IDS, PMS

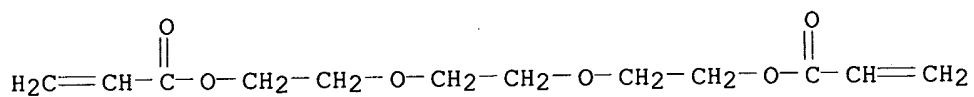


CM 5

CRN 42978-66-5

CMF C15 H24 O6

CCI IDS

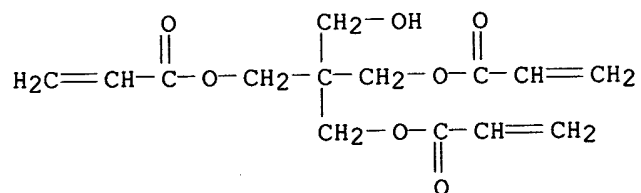


3 (D1-Me)

CM 6

CRN 3524-68-3

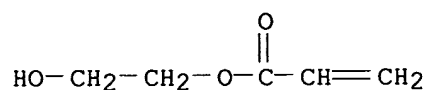
CMF C14 H18 O7



CM 7

CRN 818-61-1

CMF C5 H8 O3



RN 269745-34-8 HCAPLUS

Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl
ester, polymer with 1-ethenyl-2-pyrrolidinone, 2-hydroxyethyl
2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-
propanediyl di-2-propenoate, .alpha.,.alpha.,.alpha.''-1,2,3-
propanetriyltris[.omega.-[(1-oxo-2-propenyl)oxy]poly[oxy(methyl-1,2-
ethanediyl)]] and Sumidur N 3500 (9CI) (CA INDEX NAME)

CM 1

CRN 127464-53-3

CMF Unspecified

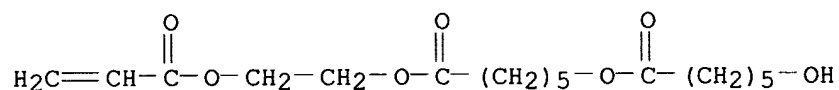
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 80413-52-1

CMF C17 H28 O7



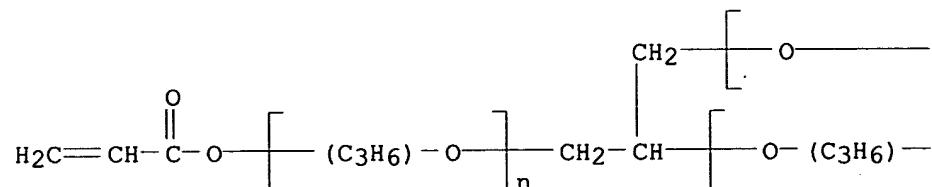
CM 3

CRN 52408-84-1

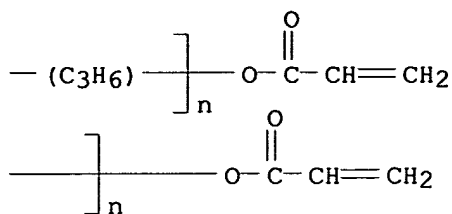
$$\text{CMF} \quad (\text{C}_3 \text{ H}_6 \text{ O})_n \quad (\text{C}_3 \text{ H}_6 \text{ O})_n \quad (\text{C}_3 \text{ H}_6 \text{ O})_n \quad \text{C}_{12} \text{ H}_{14} \text{ O}_6$$

CCI IDS, PMS

PAGE 1-A

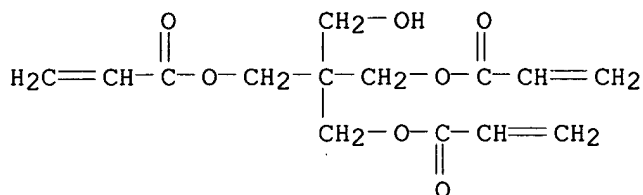


PAGE 1-B



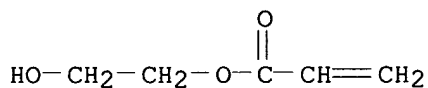
CM 4

CRN 3524-68-3
CMF C14 H18 O7



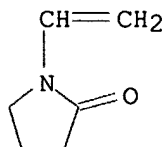
CM 5

CRN 818-61-1
CMF C5 H8 O3



CM 6

CRN 88-12-0
CMF C6 H9 N O



RN 269745-35-9 HCAPLUS

CN Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl ester, polymer with N-ethenylformamide, .alpha.-hydro-.omega.-[(1-oxo-2-propenyl)oxy][poly(oxy-1,2-ethanediyl)] ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1), 2-(hydroxymethyl)-2-[(1-oxo-2-propenyl)oxy]methyl-1,3-propanediyl di-2-propenoate, .alpha.-[(1-oxo-2-propenyl)-.omega.-hydroxypoly[oxy(methyl-1,2-ethanediyl)] and Sumidur N

3500 (9CI) (CA INDEX NAME)

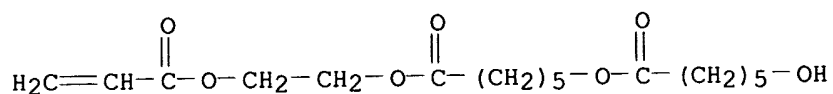
CM 1

CRN 127464-53-3
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

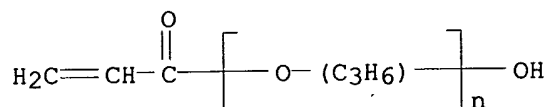
CM 2

CRN 80413-52-1
CMF C17 H28 O7



CM 3

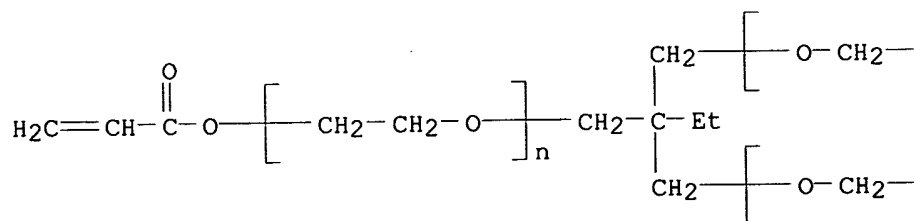
CRN 50858-51-0
CMF (C3 H6 O)_n C3 H4 O2
CCI IDS, PMS



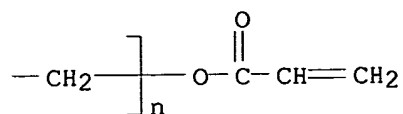
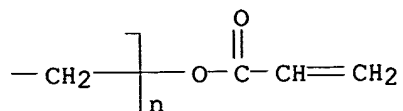
CM 4

CRN 28961-43-5
CMF (C2 H4 O)_n (C2 H4 O)_n (C2 H4 O)_n C15 H20 O6
CCI PMS

PAGE 1-A



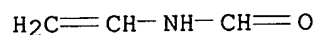
PAGE 1-B



CM 5

CRN 13162-05-5

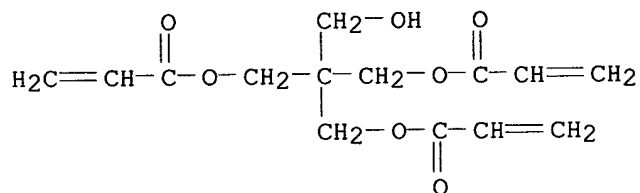
CMF C3 H5 N O



CM 6

CRN 3524-68-3

CMF C14 H18 O7



RN 269745-36-0 HCAPLUS

CN Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl ester, polymer with Ebecryl 7100, [2-ethyl-2-[[methyl-2-[(1-oxo-2-propenyl)oxy]ethoxy]methyl]-1,3-propanediyl]bis[oxy(methyl-2,1-ethanediyl)] di-2-propenoate, 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl] di-2-propenoate, 2-phenoxyethyl 2-propenoate and Sumidur N 3200 (9CI) (CA INDEX NAME)

CM 1

CRN 135991-03-6

CMF Unspecified

CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 110539-63-4

CMF Unspecified

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

CCI MAN

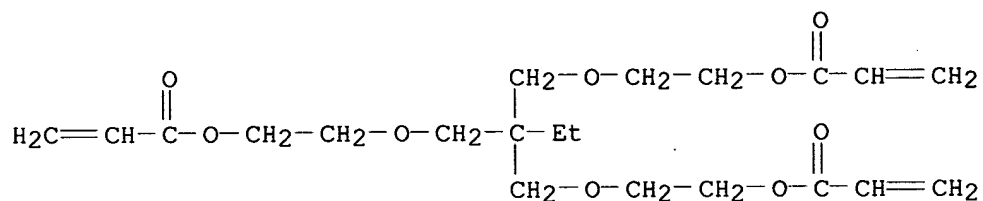
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

CRN 100289-84-7

CMF C24 H38 O9

CCI	IDS
-----	-----

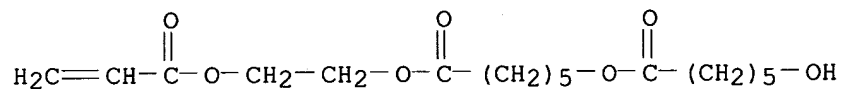


3 (D1-Me)

CM 4

CRN 80413-52-1

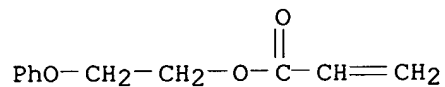
CMF C17 H28 O7



CM 5

CRN 48145-04-6

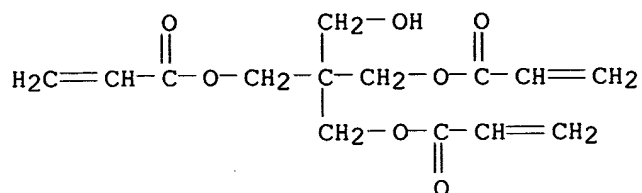
CMF C11 H12 O3



CM 6

CRN 3524-68-3

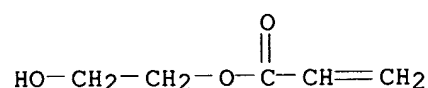
CMF C14 H18 O7



CM 7

CRN 818-61-1

CMF C5 H8 O3



RN 269745-37-1 HCAPLUS

CN Hexanoic acid, 6-hydroxy-, 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl ester, polymer with 1,2-ethanediylbis(oxy-2,1-ethanediyl) di-2-propenoate, 1-ethenyl-2-pyrrolidinone, 2-ethyl-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and Sumidur HT (9CI) (CA INDEX NAME)

CM 1

CRN 92529-50-5

CMF Unspecified

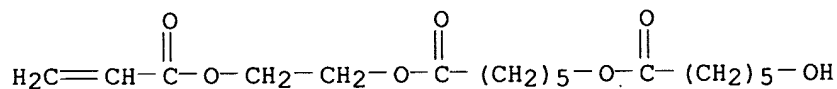
CCI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 80413-52-1

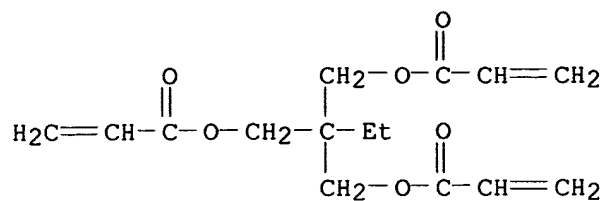
CMF C17 H28 O7



CM 3

CRN 15625-89-5

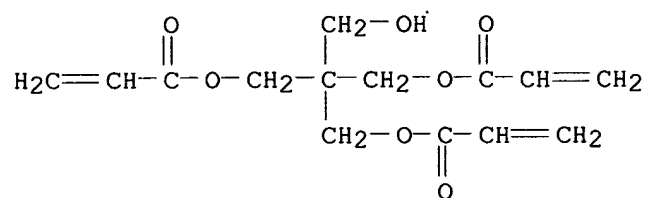
CMF C15 H20 O6



CM 4

CRN 3524-68-3

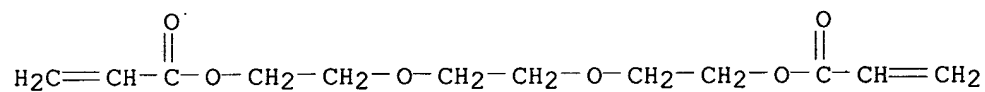
CMF C14 H18 O7



CM 5

CRN 1680-21-3

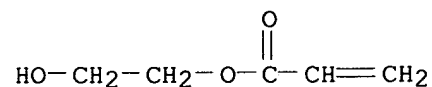
CMF C12 H18 O6



CM 6

CRN 818-61-1

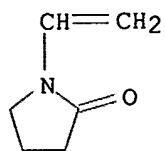
CMF C5 H8 O3



CM 7

CRN 88-12-0

CMF C6 H9 N O



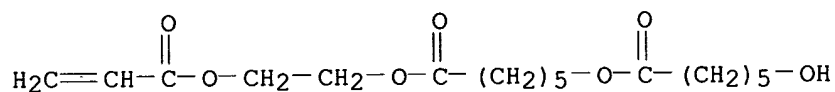
RN 269745-38-2 HCAPLUS

CN Hexanoic acid, 2,6-diisocyanato-, 2-isocyanatoethyl ester, (2S)-, polymer with 1-ethenylhexahydro-2H-azepin-2-one, 2-ethyl-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate, 2-hydroxyethyl 2-propenoate, 2-(hydroxymethyl)-2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl di-2-propenoate and 6-oxo-6-[2-[(1-oxo-2-propenyl)oxy]ethoxy]hexyl 6-hydroxyhexanoate (9CI) (CA INDEX NAME)

CM 1

CRN 80413-52-1

CMF C17 H28 O7

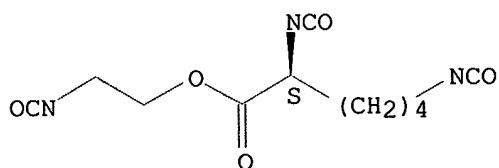


CM 2

CRN 77704-50-8

CMF C11 H13 N3 O5

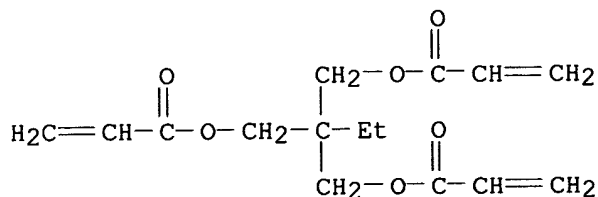
Absolute stereochemistry.



CM 3

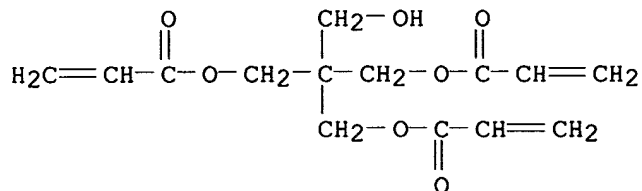
CRN 15625-89-5

CMF C15 H20 O6



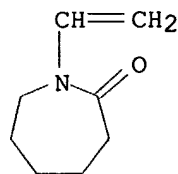
CM 4

CRN 3524-68-3
CMF C14 H18 O7



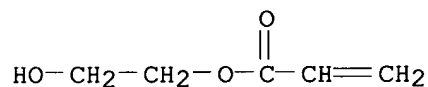
CM 5

CRN 2235-00-9
CMF C8 H13 N O



CM 6

CRN 818-61-1
CMF C5 H8 O3



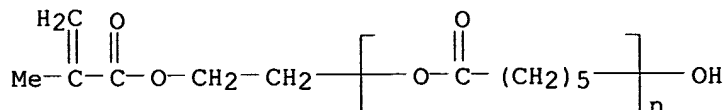
L23 ANSWER 24 OF 55 HCAPLUS COPYRIGHT 2002 ACS
AN 2000:216101 HCAPLUS
DN 132:258159
TI Pigment dispersing agent and its photosensitive, pigmented
composition
IN Kiyohara, Yoshiko; Ando, Masayuki
PA Dainippon Printing Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C09D017-00
ICS C08F002-50; C08F220-30; C08F220-34; C08F290-06; C09D007-12;
G02B005-20; G02B005-22; C09D004-00; C09D011-02; G03F007-004
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other
Reprographic Processes)
Section cross-reference(s): 42

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000095992	A2	20000404	JP 1998-267588	19980922
AB	The pigment dispersing agent comprise a copolymer contg. a monomer with heterocyclic hydrocarbon bearing amino or basic cyclic N and a monomer bearing a polycaprolactone framework shown as CH ₂ :CR ₁ CO ₂ R ₂ O[C(O)(CH ₂) ₅ O] _n H (R ₁ = H, Me; R ₂ = C ₁ -10 alkylene which may be substituted with halogen; n = 1-100). The photosensitive compn. contain an alk.-sol. binder, a photopolymerizable monomer, a photopolymn. initiator, a dispersing agent contg. the above copolymer, a pigment, and a solvent. The compn. is esp. suitable for a UV- and energy beam-curable coating, ink, solder resist, and color filter manufg.				
ST	pigment dispersing agent polycaprolactone acrylate copolymer; amino heterocyclic hydrocarbon polycaprolactone copolymer dispersant; basic cyclic nitrogen hydrocarbon polycaprolactone copolymer; dimethylaminoethyl methacrylate polycaprolactone monoacrylate copolymer pigment dispersant; photoresist pigment dispersing agent acrylic polycaprolactone; color filter photosensitive compn pigment dispersant; coating polycaprolactone acrylate copolymer pigment dispersant; ink polycaprolactone acrylate copolymer pigment dispersant				
IT	Polyesters, preparation RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acrylic, graft; polycaprolactone acrylate-graft pigment dispersing agent and its photosensitive, pigmented compn. for color filter, photoresist, ink, and coating)				
IT	Photoresists (polycaprolactone acrylate-graft pigment dispersing agent and its photosensitive, pigmented compn. for color filter, photoresist, ink, and coating)				
IT	262604-08-0P RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation) ; USES (Uses) (polycaprolactone acrylate-graft pigment dispersing agent and its photosensitive, pigmented compn. for color filter, photoresist, ink, and coating)				
IT	119313-12-1, 2-Benzyl-2-dimethylamino-1-(4-morpholinophenyl)butanone RL: CAT (Catalyst use); USES (Uses) (resist component; polycaprolactone acrylate-graft pigment dispersing agent and its photosensitive, pigmented compn. for color filter, photoresist, ink, and coating)				
IT	60506-81-2, Dipentaerythritol pentaacrylate RL: TEM (Technical or engineered material use); USES (Uses) (resist component; polycaprolactone acrylate-graft pigment dispersing agent and its photosensitive, pigmented compn. for color filter, photoresist, ink, and coating)				
IT	262604-08-0P RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation) ; USES (Uses) (polycaprolactone acrylate-graft pigment dispersing agent and its photosensitive, pigmented compn. for color filter, photoresist, ink, and coating)				
RN	262604-08-0 HCAPLUS				
CN	2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 2-isocyanatoethyl 2-methyl-2-propenoate and .alpha.-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]-.omega.-hydroxypoly[oxy(1-oxo-1,6-hexanediyl)] (9CI) (CA INDEX NAME)				

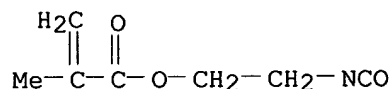
CM 1

CRN 81984-60-3
 CMF (C6 H10 O2)n C6 H10 O3
 CCI PMS



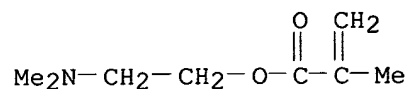
CM 2

CRN 30674-80-7
 CMF C7 H9 N O3



CM 3

CRN 2867-47-2
 CMF C8 H15 N O2



L23 ANSWER 25 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:216021 HCAPLUS

DN 132:258227

TI Pigment dispersing agent and photosensitive coloring **composition**

IN Kiyohara, Kinko; Ando, Masayuki

PA Dainippon Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08F290-06

ICS B01F017-22; B01F017-34; B01F017-52; C09D017-00; G02B005-00;
 G02B005-20; G02B005-22; G03F007-004; G03G009-08; C09D007-12

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other
 Reprographic Processes)

Section cross-reference(s): 38, 42

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000095827	A2	20000404	JP 1998-267603	19980922
AB	The agent comprises a polymer contg. a repeating unit having an NH2- and polycaprolactone backbone-contg. monomer. The compn. contains				

an alkali-sol. binder, a photopolymerizable monomer, a photopolymn. catalysts, the agent, a pigment, and a solvent. The agent shows high soly. in resins, good dispersing characteristics, and excellent development characteristics.

ST pigment dispersing agent polycaprolactone isocyanate adduct; photosensitive coloring compn caprolactone methacryloylalkyl isocyanate

IT Dispersing agents

(pigment dispersing agent contg. caprolactone-based polymer for photosensitive coloring compn.)

IT 24980-41-4DP, Poly(.epsilon.-caprolactone), reaction products with 2-methacryloyloxyethylisocyanate 25248-42-4DP, Poly[oxy(1-oxo-1,6-hexanediyl)], 2-methacryloyloxyethylisocyanate-adduct 37164-33-3DP, .epsilon.-Caprolactone-2-hydroxyethyl methacrylate-methyl methacrylate copolymer, 2-methacryloylethylisocyanate-adduct

RL: DEV (Device component use); IMF (Industrial manufacture);

MOA (Modifier or additive use); PREP (Preparation); USES

(Uses)

(polycaprolactone-based pigment dispersing agent for photosensitive coloring compn.)

IT 37164-33-3DP, .epsilon.-Caprolactone-2-hydroxyethyl methacrylate-methyl methacrylate copolymer, 2-methacryloylethylisocyanate-adduct

RL: DEV (Device component use); IMF (Industrial manufacture);

MOA (Modifier or additive use); PREP (Preparation); USES

(Uses)

(polycaprolactone-based pigment dispersing agent for photosensitive coloring compn.)

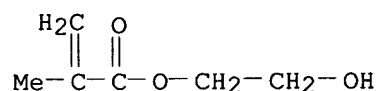
RN 37164-33-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with methyl 2-methyl-2-propenoate and 2-oxepanone (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

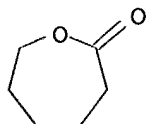
CMF C6 H10 O3



CM 2

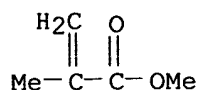
CRN 502-44-3

CMF C6 H10 O2



CM 3

CRN 80-62-6
CMF C5 H8 O2



L23 ANSWER 26 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:179855 HCAPLUS

DN 132:209228

TI Colored and matte electrodeposition coatings for aluminum substrates and coating process therewith

IN Saito, Yasuhisa; Okado, Yasuomi; Sanyama, Hideyoshi; Sugawara, Susumu

PA Shinto Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D005-44

ICS B05D003-10; B05D007-14; C09D005-00; C09D007-12; C09D133-06;
C09D143-04; C09D161-20

CC 42-7 (Coatings, Inks, and Related Products)

Section cross-reference(s): 56

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000080313	A2	20000321	JP 1998-270543	19980907
AB	Title coatings, having a total pigment content of 0.5-10% (based on total resins), are mixts. of pigmented electrodeposition compns. and pigment-free matte electrodeposition compns. contg. alkoxysilyl-contg. acrylic resins and aminoplasts. A dispersion contg. Bu acrylate (I)-2-hydroxyethyl acrylate (II)-Me methacrylate (III)-maleic anhydride-styrene (IV) copolymer, Et3N, TiO2, carbon black, LLXLO, and R 516L was mixed with a dispersion contg. acrylic acid-2-ethylhexyl methacrylate-3-methacryloxypropyltrimethoxysilane-I-II-III-IV copolymer, Et3N, and Cymel 236, dild. with water, and electrodeposited on an Al plate to form a 14-.mu.m film with gloss 19-21% and color deviation 0.3-0.8.				
ST	matte colored electrodeposition coating aluminum; alkoxysilyl acrylic polymer aminoplast matte electrodeposition coating				
IT	Polysiloxanes, uses RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acrylic; alkoxysilyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)				
IT	Electrodeposits Pigments, nonbiological (alkoxysilyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)				
IT	Aminoplasts RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (alkoxysilyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)				
IT	Carbon black, uses				

RL: TEM (Technical or engineered material use); USES (Uses)
(alkoxysilyl acrylic polymer- and aminoplast-contg. matte **compn**
. and pigmented **compn.** mixts. as electrodeposits on Al for
color uniformity)

IT 260366-67-4P, Acrylic acid-butyl acrylate-2-ethylhexyl
methacrylate-2-hydroxyethyl acrylate-methyl methacrylate-3-
methacryloxypropyltrimethoxysilane-maleic anhydride-styrene copolymer
triethylamine salt
RL: **IMF (Industrial manufacture)**; POF (Polymer in formulation);
TEM (Technical or engineered material use); **PREP (Preparation)**;
USES (Uses)
(alkoxysilyl acrylic polymer- and aminoplast-contg. matte **compn**
. and pigmented **compn.** mixts. as electrodeposits on
Al for color uniformity)

IT 7429-90-5, Aluminum, miscellaneous
RL: MSC (Miscellaneous)
(alkoxysilyl acrylic polymer- and aminoplast-contg. matte **compn**
. and pigmented **compn.** mixts. as electrodeposits on Al for
color uniformity)

IT 9003-08-1, Cymel 236
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
(alkoxysilyl acrylic polymer- and aminoplast-contg. matte **compn**
. and pigmented **compn.** mixts. as electrodeposits on Al for
color uniformity)

IT 1309-37-1, Tarox R 516L, uses 13463-67-7, Titania, uses 51274-00-1,
LL-XLO
RL: TEM (Technical or engineered material use); USES (Uses)
(alkoxysilyl acrylic polymer- and aminoplast-contg. matte **compn**
. and pigmented **compn.** mixts. as electrodeposits on Al for
color uniformity)

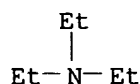
IT 260366-67-4P, Acrylic acid-butyl acrylate-2-ethylhexyl
methacrylate-2-hydroxyethyl acrylate-methyl methacrylate-3-
methacryloxypropyltrimethoxysilane-maleic anhydride-styrene copolymer
triethylamine salt
RL: **IMF (Industrial manufacture)**; POF (Polymer in formulation);
TEM (Technical or engineered material use); **PREP (Preparation)**;
USES (Uses)
(alkoxysilyl acrylic polymer- and aminoplast-contg. matte **compn**
. and pigmented **compn.** mixts. as electrodeposits on
Al for color uniformity)

RN 260366-67-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with butyl
2-propenoate, ethenylbenzene, 2,5-furandione, 2-hydroxyethyl 2-propenoate,
methyl 2-methyl-2-propenoate, 2-propenoic acid and 3-
(trimethoxysilyl)propyl 2-methyl-2-propenoate, compd. with
N,N-diethylethanamine (9CI) (CA INDEX NAME)

CM 1

CRN 121-44-8
CMF C6 H15 N



CM 2

CRN 260366-66-3

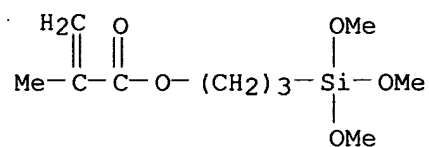
```
CMF (C12 H22 O2 . C10 H20 O5 Si . C8 H8 . C7 H12 O2 . C5 H8 O3 . C5 H8 O2
. C4 H2 O3 . C3 H4 O2)x
```

CCI PMS

CM 3

CRN 2530-85-0

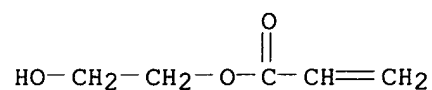
CMF C10 H20 O5 Si



CM 4

CRN 818-61-1

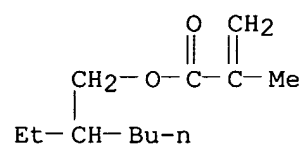
CMF C5 H8 O3



CM 5

CRN 688-84-6

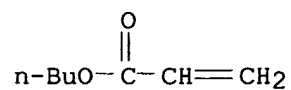
CMF C12 H22 O2



CM 6

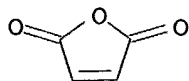
CRN 141-32-2

CMF C7 H12 O2



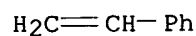
CM 7

CRN 108-31-6
CMF C4 H2 O3



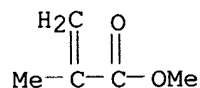
CM 8

CRN 100-42-5
CMF C8 H8



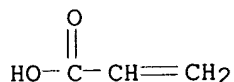
CM 9

CRN 80-62-6
CMF C5 H8 O2



CM 10

CRN 79-10-7
CMF C3 H4 O2



L23 ANSWER 27 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:179853 HCAPLUS

DN 132:209227

TI Colored and matte electrodeposition coatings for aluminum substrates and coating process therewith

IN Saito, Yasuhisa; Okado, Yasuomi; Sanyama, Hideyoshi; Sugawara, Susumu

PA Shinto Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D005-44

ICS B05D003-10; B05D007-14; C09D005-00; C09D007-12; C09D133-14;
C09D161-20

CC 42-7 (Coatings, Inks, and Related Products)

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

Section cross-reference(s): 56

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000080312	A2	20000321	JP 1998-270542	19980907
AB	Title coatings, having a total pigment content of 0.5-10% (based on total resins), are mixts. of pigmented electrodeposition compns. and pigment-free matte electrodeposition compns. contg. .beta.-methylglycidyl methacrylate (I)-based acrylic resins and aminoplasts. A dispersion contg. Bu acrylate (II)-2-hydroxyethyl acrylate (III)-Me methacrylate (IV)-maleic anhydride-styrene (V) copolymer, Et3N, TiO2, carbon black, LLXLO, and R 516L was mixed with a dispersion contg. acrylic acid-2-ethylhexyl methacrylate-I-II-III-IV-V copolymer, Et3N, and Cymel 236, dild. with water, and electrodeposited on an Al plate to form a 14-.mu.m film with gloss 19-21% and color deviation 0.3-0.8.				
ST	matte colored electrodeposition coating aluminum; methylglycidyl methacrylate acrylic polymer aminoplast matte electrodeposition coating				
IT	Electrodeposits Pigments, nonbiological (methylglycidyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)				
IT	Acrylic polymers, uses RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (methylglycidyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)				
IT	Aminoplasts RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (methylglycidyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)				
IT	Carbon black, uses RL: TEM (Technical or engineered material use); USES (Uses) (methylglycidyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)				
IT	260366-44-7P , Acrylic acid-butyl acrylate-2-ethylhexyl methacrylate-2-hydroxyethyl acrylate-methyl methacrylate-.beta.-methylglycidyl methacrylate-maleic anhydride-styrene copolymer triethylamine salt RL: IMF (Industrial manufacture) ; POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation) ; USES (Uses) (methylglycidyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)				
IT	7429-90-5, Aluminum, miscellaneous RL: MSC (Miscellaneous) (methylglycidyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)				
IT	9003-08-1, Cymel 236 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (methylglycidyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)				

IT 1309-37-1, Tarox R 516L, uses 13463-67-7, Titania, uses 51274-00-1, LL-XLO

RL: TEM (Technical or engineered material use); USES (Uses)
(methylglycidyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)

IT 260366-44-7P, Acrylic acid-butyl acrylate-2-ethylhexyl methacrylate-2-hydroxyethyl acrylate-methyl methacrylate-.beta.-methylglycidyl methacrylate-maleic anhydride-styrene copolymer triethylamine salt

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(methylglycidyl acrylic polymer- and aminoplast-contg. matte compn. and pigmented compn. mixts. as electrodeposits on Al for color uniformity)

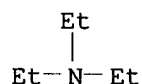
RN 260366-44-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 2,5-furandione, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate, (2-methyloxiranyl)methyl 2-methyl-2-propenoate and 2-propenoic acid, compd. with N,N-diethylethanamine (9CI) (CA INDEX NAME)

CM 1

CRN 121-44-8

CMF C6 H15 N



CM 2

CRN 260366-43-6

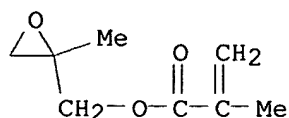
CMF (C12 H22 O2 . C8 H12 O3 . C8 H8 . C7 H12 O2 . C5 H8 O3 . C5 H8 O2 . C4 H2 O3 . C3 H4 O2)x

CCI PMS

CM 3

CRN 41768-20-1.

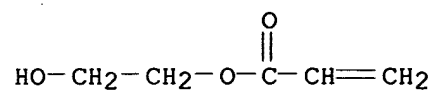
CMF C8 H12 O3



CM 4

CRN 818-61-1

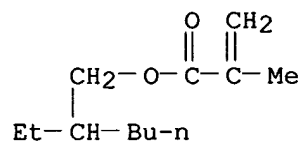
CMF C5 H8 O3



CM 5

CRN 688-84-6

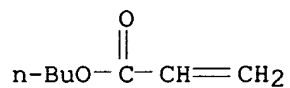
CMF C12 H22 O2



CM 6

CRN 141-32-2

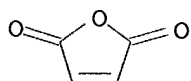
CMF C7 H12 O2



CM 7

CRN 108-31-6

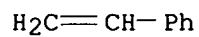
CMF C4 H2 O3



CM 8

CRN 100-42-5

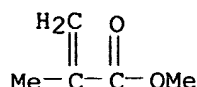
CMF C8 H8



CM 9

CRN 80-62-6

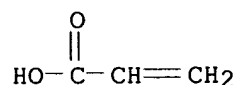
CMF C5 H8 O2



CM 10

CRN 79-10-7

CMF C3 H4 O2



L23 ANSWER 28 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:179852 HCAPLUS

DN 132:209226

TI Colored and matte electrodeposition coatings for aluminum substrates and coating process therewith

IN Saito, Yasuhisa; Okado, Yasuomi; Sanyama, Hideyoshi; Sugawara, Susumu

PA Shinto Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D005-44

ICS B05D003-10; B05D007-14; C09D005-00; C09D007-12; C09D133-06

CC 42-7 (Coatings, Inks, and Related Products)

Section cross-reference(s): 56

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000080311	A2	20000321	JP 1998-270541	19980907
AB	Title coatings, having a total pigment content of 0.5-10% (based on total resins), are mixts. of pigmented electrodeposition compns. and pigment-free matte electrodeposition compns. contg. acetoacetyl side group-contg. acrylic resins and aldehydes. A dispersion contg. Bu acrylate (I)-2-hydroxyethyl acrylate (II)-Me methacrylate (III)-maleic anhydride-styrene (IV) copolymer, Et3N, TiO2, carbon black, LLXLO, and R 516L was mixed with a dispersion contg. acrylic acid-acetoacetoxyethyl methacrylate-I-II-III-IV copolymer, Et3N, Cymel 236, and HCHO, dild. with water, and electrodeposited on an Al plate to form a 14-.mu.m film with gloss 19-21% and color deviation 0.3-0.8.				
ST	matte colored electrodeposition coating aluminum; acetoacteyl acrylic polymer aldehyde matte electrodeposition coating				
IT	Electrodeposits Pigments, nonbiological (acetoacetyl acrylic polymer- and aldehyde-contg. matte compn . and pigmented compn. mixts. for electrodeposits on Al for color uniformity)				
IT	Acrylic polymers, uses RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acetoacetyl acrylic polymer- and aldehyde-contg. matte compn . and pigmented compn. mixts. for electrodeposits on Al for				

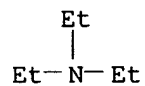
- color uniformity)
- IT Aldehydes, uses
RL: MOA (Modifier or additive use); USES (Uses)
(acetoacetyl acrylic polymer- and aldehyde-contg. matte **compn**
. and pigmented **compn.** mixts. for electrodeposits on Al for
color uniformity)
- IT Aminoplasts
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
(acetoacetyl acrylic polymer- and aldehyde-contg. matte **compn**
. and pigmented **compn.** mixts. for electrodeposits on Al for
color uniformity)
- IT Carbon black, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(acetoacetyl acrylic polymer- and aldehyde-contg. matte **compn**
. and pigmented **compn.** mixts. for electrodeposits on Al for
color uniformity)
- IT 260366-11-8P, Acrylic acid-acetoacetoxyethyl methacrylate-butyl
acrylate-2-hydroxyethyl acrylate-methyl methacrylate-maleic
anhydride-styrene copolymer triethylamine salt
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
TEM (Technical or engineered material use); PREP (Preparation);
USES (Uses)
(acetoacetyl acrylic polymer- and aldehyde-contg. matte **compn**
. and pigmented **compn.** mixts. for electrodeposits
on Al for color uniformity)
- IT 50-00-0, Formaldehyde, uses
RL: MOA (Modifier or additive use); USES (Uses)
(acetoacetyl acrylic polymer- and aldehyde-contg. matte **compn**
. and pigmented **compn.** mixts. for electrodeposits on Al for
color uniformity)
- IT 7429-90-5, Aluminum, miscellaneous
RL: MSC (Miscellaneous)
(acetoacetyl acrylic polymer- and aldehyde-contg. matte **compn**
. and pigmented **compn.** mixts. for electrodeposits on Al for
color uniformity)
- IT 9003-08-1, Cymel 236
RL: POF (Polymer in formulation); TEM (Technical or engineered material
use); USES (Uses)
(acetoacetyl acrylic polymer- and aldehyde-contg. matte **compn**
. and pigmented **compn.** mixts. for electrodeposits on Al for
color uniformity)
- IT 1309-37-1, Tarox R 516L, uses 13463-67-7, Titania, uses 51274-00-1,
LL-XLO
RL: TEM (Technical or engineered material use); USES (Uses)
(acetoacetyl acrylic polymer- and aldehyde-contg. matte **compn**
. and pigmented **compn.** mixts. for electrodeposits on Al for
color uniformity)
- IT 260366-11-8P, Acrylic acid-acetoacetoxyethyl methacrylate-butyl
acrylate-2-hydroxyethyl acrylate-methyl methacrylate-maleic
anhydride-styrene copolymer triethylamine salt
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
TEM (Technical or engineered material use); PREP (Preparation);
USES (Uses)
(acetoacetyl acrylic polymer- and aldehyde-contg. matte **compn**
. and pigmented **compn.** mixts. for electrodeposits
on Al for color uniformity)
- RN 260366-11-8 HCAPLUS
- CN Butanoic acid, 3-oxo-, 2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl ester,
polymer with butyl 2-propenoate, ethenylbenzene, 2,5-furandione,

2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate and 2-propenoic acid, compd. with N,N-diethylethanamine (9CI) (CA INDEX NAME)

CM 1

CRN 121-44-8

CMF C6 H15 N



CM 2

CRN 260366-10-7

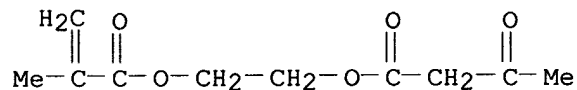
CMF (C10 H14 O5 . C8 H8 . C7 H12 O2 . C5 H8 O3 . C5 H8 O2 . C4 H2 O3 . C3 H4 O2)x

CCI PMS

CM 3

CRN 21282-97-3

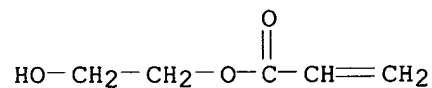
CMF C10 H14 O5



CM 4

CRN 818-61-1

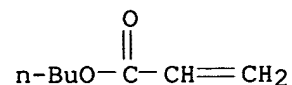
CMF C5 H8 O3



CM 5

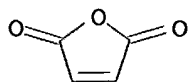
CRN 141-32-2

CMF C7 H12 O2



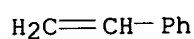
CM 6

CRN 108-31-6
CMF C4 H2 O3



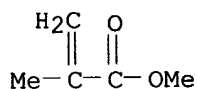
CM 7

CRN 100-42-5
CMF C8 H8



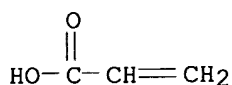
CM 8

CRN 80-62-6
CMF C5 H8 O2



CM 9

CRN 79-10-7
CMF C3 H4 O2



L23 ANSWER 29 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:658542 HCAPLUS

DN 131:293304

TI Photosensitive color composition and color filter using it

IN Nagata, Eriko; Tamura, Akira

PA Toppan Printing Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03F007-038

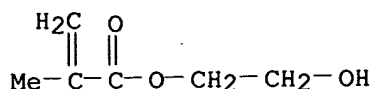
ICS G02B005-20; G03F007-004; C08L033-00; C08L101-00; C09D133-00;
C09D201-00

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other
Reprographic Processes)

Section cross-reference(s): 38

FAN.CNT 1

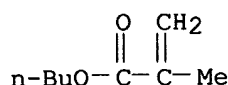
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11282158	A2	19991015	JP 1998-81880	19980327
AB	The compn. contains an acid-curable resin, a crosslinking agent, a photoacid generator, and a coloring material comprising a dye and a pigment. The compn. is useful for manufg. the filter. The compn. shows excellent storage stability and sensitivity, so that the filter with excellent heat and weather resistance, resolu., spectroscopic permeability, and contrast can be manufd.				
ST	photosensitive resin compn color filter; pigment dye				
IT	Aminoplasts RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (MW 30M, crosslinking agent; dye- and pigment-contg. photosensitive resin compn. for color filter)				
IT	Optical filters Photoresists (dye- and pigment-contg. photosensitive resin compn. for color filter)				
IT	9003-08-1, MW 30M RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (MW 30M, crosslinking agent; dye- and pigment-contg. photosensitive resin compn. for color filter)				
IT	31942-54-8P, Butyl methacrylate-hydroxyethyl methacrylate-methyl methacrylate copolymer RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (dye- and pigment-contg. photosensitive resin compn . for color filter)				
IT	1328-53-6, C.I. Pigment green 7 104244-10-2, C.I. Solvent Yellow 162 RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (dye- and pigment-contg. photosensitive resin compn. for color filter)				
IT	69432-40-2, 2-(4'-Methoxy-1'-naphthyl)-4,6-bis(trichloromethyl)-s-triazine RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses) (photoacid generator; dye- and pigment-contg. photosensitive resin compn. for color filter)				
IT	31942-54-8P, Butyl methacrylate-hydroxyethyl methacrylate-methyl methacrylate copolymer RL: DEV (Device component use); IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (dye- and pigment-contg. photosensitive resin compn . for color filter)				
RN	31942-54-8 HCAPLUS				
CN	2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)				
CM	1				
CRN	868-77-9				
CMF	C6 H10 O3				



CM 2

CRN 97-88-1

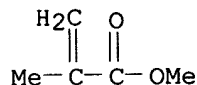
CMF C8 H14 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



L23 ANSWER 30 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:597457 HCAPLUS

DN 131:218276

TI Method for coating mineral products, the coated mineral products obtained, and the aqueous film-forming coating materials and their use

IN Schwartz, Manfred; Bechert, Berthold

PA BASF Aktiengesellschaft, Germany

SO Eur. Pat. Appl., 14 pp.

CODEN: EPXXDW

DT Patent

LA German

IC ICM C04B041-63

ICS C08F020-12; C09D133-06

CC 58-2 (Cement, Concrete, and Related Building Materials)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 941977	A1	19990915	EP 1999-104590	19990308
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19810052	A1	19990916	DE 1998-19810052	19980309
	NO 9901115	A	19990910	NO 1999-1115	19990308
	US 6162505	A	20001219	US 1999-263822	19990308
	JP 11322471	A2	19991124	JP 1999-62157	19990309
PRAI	DE 1998-19810052	A	19980309		
AB	In this method, comprising coating the mineral products with an aq. compn. contg. .gtoreq.1 binder copolymers (P1) and .gtoreq.1 inorg. pigments, optionally drying the coating, and coating the mineral products with an aq. compn. contg. .gtoreq.1 binder copolymers				

(P2) and .gtoreq.1 inorg. pigments (P1, P2 consisting of monomer A, B, and, optionally, C), and in which monomer A consists of vinyl arenes (A1) and/or methacrylic acid esters of C1-4-aliph. alcs. (A2), monomer B consists of esters (different from A2) of .alpha.,.beta.-ethylenically unsatd. carboxylic acids and C1-12-aliph. alcs. (B1) and/or vinyl esters of aliph. carboxylic acids (B2), and monomer C of (different) .alpha.,.beta.-ethylenically monomers, the monomers for P1 and P2 are the same A and B, and the pigment vol. concn. of the 1st **compn.** is .gtoreq.10 times that of the 2nd **compn.** The coatings are weather-resistant and prevent efflorescence. A dispersion was prepd. using deionized water 400, itaconic acid 1.4, 1st emulsifier soln. 6.22, and deionized water 200.0, 1st emulsifier soln. 9.3, 2nd emulsifier soln. 37.3, Me methacrylate 413.0, n-Bu acrylate 287, 50-wt.% aq. soln. of 2-acrylamido-2-methylpropanesulfonic acid Na salt 28.0, and 50-wt.% aq. soln. of acrylamide 7.0 g, and Na persulfate 1.4 in water 75 g.

ST mineral weather resistant coating pigment; vinyl arene copolymer coating pigment; methacrylic acid ester copolymer coating; unsatd carboxylic acid ester copolymer; ester vinyl copolymer

IT Concrete
(coating of; pigment-contg. aq. weather-resistant film-forming coating materials for)

IT Pigments, nonbiological
(mineral product coating with aq. **compn.** contg. weather-resistant film-forming coating materials and)

IT 112409-96-8P **242464-01-3P**
RL: **SPN (Synthetic preparation)**; TEM (Technical or engineered material use); **PREP (Preparation)**; **USES (Uses)**
(mineral product coating with aq. **compn.** contg. pigment and)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
(1) Anon; 1982, 18, HCAPLUS
(2) Basf Ag; EP 0469295 A 1992 HCAPLUS
(3) Dainippon Toryo Co Ltd; JP 57071884 A 1982 HCAPLUS
(4) Kubota Corp; JP 03208874 A 1991 HCAPLUS

IT **242464-01-3P**
RL: **SPN (Synthetic preparation)**; TEM (Technical or engineered material use); **PREP (Preparation)**; **USES (Uses)**
(mineral product coating with aq. **compn.** contg. pigment and)

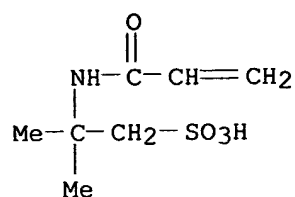
RN 242464-01-3 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 5165-97-9

CMF C7 H13 N O4 S . Na

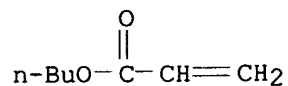


● Na

CM 2

CRN 141-32-2

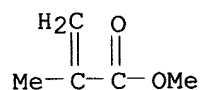
CMF C7 H12 O2



CM 3

CRN 80-62-6

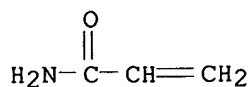
CMF C5 H8 O2



CM 4

CRN 79-06-1

CMF C3 H5 N O



L23 ANSWER 31 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:463426 HCAPLUS

DN 131:103579

TI Production method of aqueous pigment dispersion and aqueous coloring
composition made from the same

IN Ishimori, Motokazu; Hashizume, Toyomi; Takao, Nagayuki

PA Dainippon Ink and Chemicals, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

DT Patent
LA Japanese
IC ICM C08L101-00
ICS C09C003-10; C09D011-00; C09D017-00
CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 37

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11199783	A2	19990727	JP 1998-3183	19980109
AB	The dispersion, having vol. av. particle diam. 10-500 nm and for formation of membranes and inks with good water resistance and good durability, is prepd. by neutralization of a carboxyl-contg. polymer having acid value 30-120 and a hydrous cake of a pigment and a dispersing agent with a basic compd. Thus, a dispersion is prepd. by neutralization of a copolymer (acid value 70; no.-av. mol.-wt. 6000) of Bu methacrylate, Bu acrylate, 2-hydroxyethyl methacrylate and methacrylic acid with dimethylethanolamine, adding Fastogen Super Magenta RTS, a dispersing agent of dimethylaminomethyl-substituted 3,10-dichloroquinacritone and an ion exchange water and neutralization with a basic compd.				
ST	aq coloring compn acrylic polymer amine salt; coating material				
IT	ink coloring dispersion				
IT	Water-resistant materials				
	Water-resistant materials				
	(inks; prodn. method of aq. pigment dispersion and aq. coloring compn . made from the same)				
IT	Coloring materials				
	Dispersing agents				
	(prodn. method of aq. pigment dispersion and aq. coloring compn . made from the same)				
IT	Acrylic polymers, uses				
	Polyesters, uses				
	Polyurethanes, uses				
	RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)				
	(prodn. method of aq. pigment dispersion and aq. coloring compn . made from the same)				
IT	Diazo compounds				
	RL: TEM (Technical or engineered material use); USES (Uses)				
	(prodn. method of aq. pigment dispersion and aq. coloring compn . made from the same)				
IT	Coating materials				
	Inks				
	Inks				
	(water-resistant; prodn. method of aq. pigment dispersion and aq. coloring compn . made from the same)				
IT	Coating materials				
	Inks				
	(water-thinned; prodn. method of aq. pigment dispersion and aq. coloring compn . made from the same)				
IT	3573-01-1, 3,10-Dichloroquinacridone				
	RL: MOA (Modifier or additive use); USES (Uses)				
	(dimethylaminomethyl-substituted; prodn. method of aq. pigment dispersion and aq. coloring compn . made from the same)				
IT	91-94-1, 3,3'-Dichlorobenzidine 34376-24-4				
	RL: RCT (Reactant); RACT (Reactant or reagent)				
	(dispersing agents; prodn. method of aq. pigment dispersion and aq. coloring compn . made from the same)				
IT	55854-33-6P, Butyl methylacrylate-2-hydroxyethyl methacrylate-methacrylic acid-styrene copolymer 188019-55-8P,				

Butyl acrylate-butyl methylacrylate-2-hydroxyethyl methacrylate-methacrylic acid copolymer dimethylethanolamine salt 227605-21-2P 231951-73-8P

RL: **IMF (Industrial manufacture)**; PRP (Properties); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)

(prodn. method of aq. **pigment** dispersion and aq. coloring **compn.** made from the same)

IT 111214-34-7, Hydran AP 40 150275-15-3 188019-63-8
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(prodn. method of aq. pigment dispersion and aq. coloring **compn.** made from the same)

IT 92-15-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(prodn. method of aq. pigment dispersion and aq. coloring **compn.** made from the same)

IT 147-14-8, Fastogen Blue TGR 147-14-8D, Copper phthalocyanine, N,N-dimethylaminopropylsulfone amide-substituted 980-26-7, Fastogen Super Magenta RTS 4531-49-1, SymulerFast Yellow 8GTF
RL: TEM (Technical or engineered material use); USES (Uses)

(prodn. method of aq. pigment dispersion and aq. coloring **compn.** made from the same)

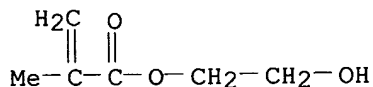
IT 55854-33-6P, Butyl methylacrylate-2-hydroxyethyl methacrylate-methacrylic acid-styrene copolymer 188019-55-8P, Butyl acrylate-butyl methylacrylate-2-hydroxyethyl methacrylate-methacrylic acid copolymer dimethylethanolamine salt
RL: **IMF (Industrial manufacture)**; PRP (Properties); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)

(prodn. method of aq. **pigment** dispersion and aq. coloring **compn.** made from the same)

RN 55854-33-6 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

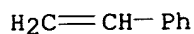
CM 1

CRN 868-77-9
CMF C6 H10 O3



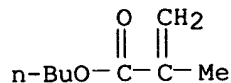
CM 2

CRN 100-42-5
CMF C8 H8



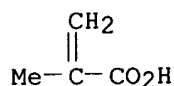
CM 3

CRN 97-88-1
CMF C8 H14 O2



CM 4

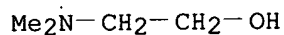
CRN 79-41-4
CMF C4 H6 O2



RN 188019-55-8 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate and 2-hydroxyethyl 2-methyl-2-propenoate, compd. with 2-(dimethylamino)ethanol (9CI) (CA INDEX NAME)

CM 1

CRN 108-01-0
CMF C4 H11 N O

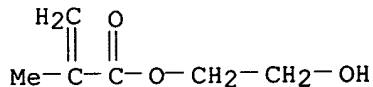


CM 2

CRN 70977-05-8
CMF (C8 H14 O2 . C7 H12 O2 . C6 H10 O3 . C4 H6 O2)x
CCI PMS

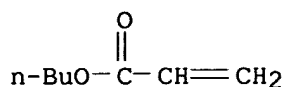
CM 3

CRN 868-77-9
CMF C6 H10 O3



CM 4

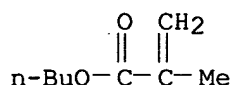
CRN 141-32-2
CMF C7 H12 O2



CM 5

CRN 97-88-1

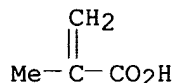
CMF C8 H14 O2



CM 6

CRN 79-41-4

CMF C4 H6 O2



L23 ANSWER 32 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1999:48441 HCAPLUS

DN 130:155115

TI Pigment dispersion and ink **composition** for offset printing made from the same

IN Kinoshita, Hidenoro; Iwase, Takashi; Sato, Akihisa

PA Sakata Inx Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D017-00

ICS C09D011-10; C08F212-08; C08F220-10; C08G059-14

CC 42-12 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11012528	A2	19990119	JP 1997-166365	19970623

AB The **compn.** comprises a pigment, an arom. and a basic and/or an acid group-contg. auxiliary dispersing agent, a polymer for dispersion the auxiliary dispersing agent, a solvent and a binder, wherein the auxiliary dispersing agent is made from mainly a monomer having arom. ring, a monomer having acid group and other monomers. Thus, an auxiliary was prepd. by the polymn. of 166.6 parts styrene and 34.4 parts methacrylic acid in the presence of AIBN and condensation reaction in stearyl alc. and xylene mixt. in the presence of tetra-Bu titanate at 150-160.degree. to gave an agent having wt. av. mol. wt. 4400 and acid value 32.

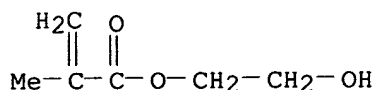
ST ink pigment auxiliary dispersant styrene copolymer; methacrylic acid copolymer pigment dispersant; offset printing ink dispersion aid

- IT Inks
(lithog.; pigment dispersion and ink **compn.** for offset printing made from the same)
- IT Dispersing agents
Polymerization
(pigment dispersion and ink **compn.** for offset printing made from the same)
- IT Acrylic polymers, uses
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(pigment dispersion and ink **compn.** for offset printing made from the same)
- IT 9010-92-8DP, Methacrylic acid-styrene copolymer, reaction product with stearyl alc. 9011-13-6DP, Maleic anhydride-styrene copolymer, reaction product with stearyl alc. 25167-42-4DP, Glycidyl methacrylate-styrene copolymer, reaction product with stearic acid 25167-42-4DP, Glycidyl methacrylate-styrene copolymer, reaction product with stearylamine 25167-42-4P, Glycidyl methacrylate-styrene copolymer **26010-51-5DP**, Hydroxyethyl methacrylate-styrene copolymer, reaction product with succinic anhydride 27924-99-8DP, 12-Hydroxystearic acid homopolymer, reaction product with succinic anhydride 27941-02-2DP, 12-Hydroxystearic acid homopolymer, sru, aminated 27941-02-2DP, 12-Hydroxystearic acid homopolymer, sru, reaction product with succinic anhydride 29564-58-7DP, Glycidyl methacrylate-methyl methacrylate-styrene copolymer, reaction product with stearyl alc. 66251-30-7DP, Glycidyl methacrylate-vinyl toluene copolymer, reaction product with succinic anhydride **137000-03-4P**, 2-Dimethylaminoethyl methacrylate-hydroxyethyl methacrylate-styrene copolymer
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(pigment dispersion and ink **compn.** for offset printing made from the same)
- IT **26010-51-5DP**, Hydroxyethyl methacrylate-styrene copolymer, reaction product with succinic anhydride **137000-03-4P**, 2-Dimethylaminoethyl methacrylate-hydroxyethyl methacrylate-styrene copolymer
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(pigment dispersion and ink **compn.** for offset printing made from the same)
- RN 26010-51-5 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

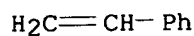
CRN 868-77-9

CMF C6 H10 O3



CM 2

CRN 100-42-5
CMF C8 H8

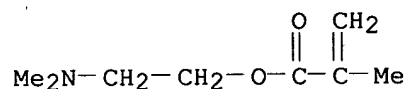


RN 137000-03-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethenylbenzene and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

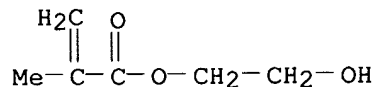
CM 1

CRN 2867-47-2
CMF C8 H15 N O2



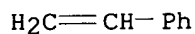
CM 2

CRN 868-77-9
CMF C6 H10 O3



CM 3

CRN 100-42-5
CMF C8 H8



L23 ANSWER 33 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:804046 HCAPLUS

DN 130:39906

TI Water-thinned ink-jet ink compositions

IN Sacripante, Guerino G.; Nichols, Garland J.; Kneisel, Elizabeth A.; Cheng, Chieh-min

PA Xerox Corp., USA

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C09D011-00

CC 42-12 (Coatings, Inks, and Related Products)

FAN.CNT 1

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

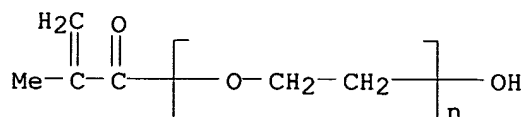
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 882771	A2	19981209	EP 1998-110076	19980603
	EP 882771	A3	19990407		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	US 6329446	B1	20011211	US 1997-869962	19970605
	JP 10338826	A2	19981222	JP 1998-123376	19980506
PRAI	US 1997-869962	A	19970605		
AB	The inks, showing good stability and smear resistance, comprise a vehicle, a colorant, and a resin emulsion, wherein the resin emulsion contains water, surfactant, resin particles and solubilized resin obtained by polymn. of a mixt. of olefinic monomers, and wherein .gtoreq.1 of the olefinic monomers is an acid. Thus, an ink contg. carbon black, sulfolane, polyethylene glycol, an emulsion of benzyl methacrylate-methacrylic acid-polyethylene glycol methacrylate copolymer as a smear-reducing additive, and water.				
ST	wet smear resistance water thinned ink; aq jet printing ink; benzyl methacrylate methacrylic acid polyethylene glycol methacrylate copolymer				
IT	Inks (jet-printing, water-thinned; water-thinned pigmented ink-jet inks with improved smear resistance)				
IT	26284-14-0P, Butyl methacrylate-methacrylic acid copolymer 30701-66-7P, Butyl methacrylate-glycidyl methacrylate-methacrylic acid copolymer 216978-97-1P, Benzyl methacrylate-methacrylic acid-polyethylene glycol monomethacrylate copolymer RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses) (smear-reducing additives; water-thinned pigmented ink-jet inks with improved smear resistance)				
IT	216978-97-1P, Benzyl methacrylate-methacrylic acid-polyethylene glycol monomethacrylate copolymer RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses) (smear-reducing additives; water-thinned pigmented ink-jet inks with improved smear resistance)				
RN	216978-97-1 HCAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with .alpha.-(2-methyl-1-oxo-2-propenyl)-.omega.-hydroxypoly(oxy-1,2-ethanediyl) and phenylmethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)				

CM 1

CRN 25736-86-1

CMF (C2 H4 O)n C4 H6 O2

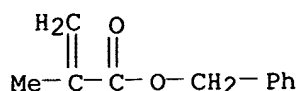
CCI PMS



CM 2

CRN 2495-37-6

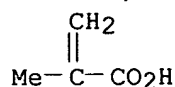
CMF C11 H12 O2



CM 3

CRN 79-41-4

CMF C4 H6 O2



L23 ANSWER 34 OF 55 HCAPLUS COPYRIGHT 2002 ACS
 AN 1998:538513 HCAPLUS
 DN 129:232013
 TI Design of polymeric dispersants for waterborne coatings
 AU Creutz, S.; Jerome, R.; Kaptijn, G. M. P.; Van der Werf, A. W.; Akkerman, J. M.
 CS Cent. Educ. and Res. Macromolecules (CERM), Univ. Liege, Sart-Tilman, 4000, Belg.
 SO Journal of Coatings Technology (1998), 70(883), 41-46
 CODEN: JCTEDL; ISSN: 0361-8773
 PB Federation of Societies for Coatings Technology
 DT Journal
 LA English
 CC 42-5 (Coatings, Inks, and Related Products)
 AB Block and random copolymers of ammonium methacrylate and dimethylaminoethyl methacrylate have been synthesized and tested as dispersants of various org. and inorg. pigments in formulations for waterborne paints. Blockiness of the co-monomer distribution is a prerequisite for good color characteristics in the final paint. A tapered diblock (one-step anionic synthesis), a diblock copolymer with a regular change in **compn.** from one block to the other one, has interfacial activity quite comparable to the parent "pure" diblock copolymer (two-step anionic synthesis). The most interesting observation is that the poly(dimethylaminoethyl methacrylate) anchoring block can impart stability to dispersion of pigments as different as iron oxide, a blue Cu-phthalocyanine pigment, and a red org. pigment based on pyrrole in representative aq. paint formations.
 ST dispersant pigment waterborne paint; ammonium methacrylate copolymer dispersant waterborne paint; methylaminoethyl methacrylate copolymer dispersant waterborne paint
 IT Dispersing agents
 Pigments, nonbiological
 (design of ammonium methacrylate-dimethylaminoethyl methacrylate copolymer dispersants for pigments in waterborne paints)
 IT Paints
 (water-thinned; design of ammonium methacrylate-dimethylaminoethyl methacrylate copolymer dispersants for pigments in waterborne paints)
 IT 110563-56-9DP, tert-Butyl methacrylate-2-(dimethylamino)ethyl methacrylate copolymer, hydrolyzed, ammonium salts
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(design of ammonium methacrylate-dimethylaminoethyl methacrylate copolymer dispersants for pigments in waterborne paints)

IT 184827-21-2DP, tert-Butyl methacrylate-2-(dimethylamino)ethyl methacrylate block copolymer, hydrolyzed, ammonium salts
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (diblock; design of ammonium methacrylate-dimethylaminoethyl methacrylate copolymer dispersants for pigments in waterborne paints)

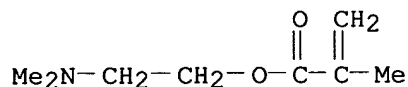
IT 110563-56-9DP, tert-Butyl methacrylate-2-(dimethylamino)ethyl methacrylate copolymer, hydrolyzed, ammonium salts
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (design of ammonium methacrylate-dimethylaminoethyl methacrylate copolymer dispersants for pigments in waterborne paints)

RN 110563-56-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

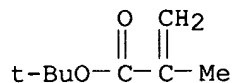
CM 1

CRN 2867-47-2
 CMF C8 H15 N O2



CM 2

CRN 585-07-9
 CMF C8 H14 O2



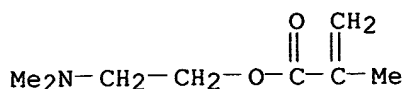
IT 184827-21-2DP, tert-Butyl methacrylate-2-(dimethylamino)ethyl methacrylate block copolymer, hydrolyzed, ammonium salts
 RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
 (diblock; design of ammonium methacrylate-dimethylaminoethyl methacrylate copolymer dispersants for pigments in waterborne paints)

RN 184827-21-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 1,1-dimethylethyl 2-methyl-2-propenoate, block (9CI) (CA INDEX NAME)

CM 1

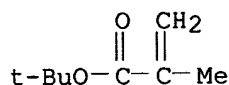
CRN 2867-47-2
 CMF C8 H15 N O2



CM 2

CRN 585-07-9

CMF C8 H14 O2



L23 ANSWER 35 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:361028 HCAPLUS

DN 129:102037

TI Pigmented photosensitive polymer **compositions** and color filters using same

IN Higuchi, Yoichi; Yamagata, Hideaki; Ito, Kyoko; Mori, Hiroyuki; Kageyama, Tatsuya

PA Dainippon Printing Co., Ltd., Japan; Ink Tech K. K.

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08F290-04

ICS G02F001-1335

CC 74-13 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 37, 38

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10152536	A2	19980609	JP 1996-325905	19961122
AB	Title compns. comprise (A) photopolymerizable polymers which are prep'd. by addn. reaction of 1-12 parts of a glycidyl (meth)acrylates to 100 parts of a copolymers comprising benzyl (meth)acrylates 1-50, styrene 15-55, and (meth)acrylic acids 5-40 parts, (B) photopolymerizable monomers, (C) photopolymn. initiators, preferably contg. .gtoreq.50% acetophenone types, (D) color pigments, and (E) solvents. The color filters, esp. black matrixes, are also claimed. The photosensitive color compn. can be uniformly developed with alk. aq. developers.				
ST	pigmented photopolymerizable polymer compn color filter; black matrix pigmented photopolymerizable polymer compn ; glycidyl acrylate addn acrylic polymer photosensitive; acetophenone photopolymn initiator color filter				
IT	Optical filters (contained in pigmented photosensitive polymer compn. for color filters, esp. black matrixes)				
IT	Carbon black, uses RL: TEM (Technical or engineered material use); USES (Uses) (contained in pigmented photosensitive polymer compn. for color filters, esp. black matrixes)				
IT	21245-01-2, Isoamyl-4-(dimethylamino)benzoate				

RL: CAT (Catalyst use); USES (Uses)
 (DMBI; contained in pigmented photosensitive polymer compn.
 for color filters, esp. black matrixes)

IT 7473-98-5
 RL: CAT (Catalyst use); USES (Uses)
 (Darocur 1173; contained in pigmented photosensitive polymer
 compn. for color filters, esp. black matrixes)

IT 38394-53-5, S 112
 RL: CAT (Catalyst use); USES (Uses)
 (S 112; contained in pigmented photosensitive polymer compn.
 for color filters, esp. black matrixes)

IT 6542-67-2
 RL: CAT (Catalyst use); USES (Uses)
 (TAZ 101; contained in pigmented photosensitive polymer compn
 . for color filters, esp. black matrixes)

IT 42573-57-9
 RL: CAT (Catalyst use); USES (Uses)
 (TAZ 110; contained in pigmented photosensitive polymer compn
 . for color filters, esp. black matrixes)

IT 947-19-3, Irgacure 184 3584-23-4, TAZ 104 7189-82-4,
 2,2'-Bis(o-chlorophenyl)-4,4',5,5'-tetraphenyl-1,2'-biimidazole
 10287-53-3, Ethyl-4-(dimethylamino)benzoate 24650-42-8, Irgacure 651
 69432-40-2, TAZ 106 71868-10-5, Irgacure 907 75980-60-8,
 2,4,6-Trimethylbenzoyldiphenylphosphine oxide 82799-44-8, Kayacure
 DETX-S 119313-12-1, Irgacure 369 189146-15-4, Lucirin TPO
 RL: CAT (Catalyst use); USES (Uses)
 (contained in pigmented photosensitive polymer compn. for
 color filters, esp. black matrixes)

IT 209689-01-0P
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (contained in pigmented photosensitive polymer compn
 . for color filters, esp. black matrixes)

IT 209689-00-9
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or
 engineered material use); USES (Uses)
 (contained in pigmented photosensitive polymer compn
 . for color filters, esp. black matrixes)

IT 29570-58-9, Dipentaerythritol hexaacrylate 64401-02-1, NK Ester A-BPE 20
 RL: TEM (Technical or engineered material use); USES (Uses)
 (contained in pigmented photosensitive polymer compn. for
 color filters, esp. black matrixes)

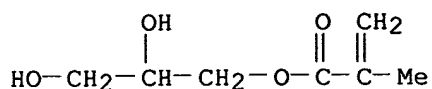
IT 209689-01-0P
 RL: PNU (Preparation, unclassified); TEM (Technical or engineered material
 use); PREP (Preparation); USES (Uses)
 (contained in pigmented photosensitive polymer compn
 . for color filters, esp. black matrixes)

RN 209689-01-0 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with
 ethenylbenzene and 2-propenoic acid, 2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

CRN 193278-95-4

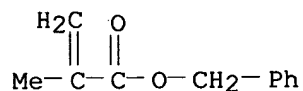
CMF (C11 H12 O2 . C8 H8 . C3 H4 O2)x

CCI PMS

CM 3

CRN 2495-37-6

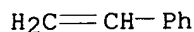
CMF C11 H12 O2



CM 4

CRN 100-42-5

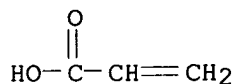
CMF C8 H8



CM 5

CRN 79-10-7

CMF C3 H4 O2



IT 209689-00-9

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(contained in **pigmented** photosensitive polymer **compn**
for color filters, esp. black matrixes)

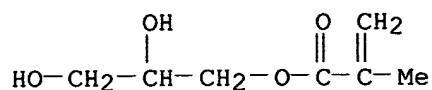
RN 209689-00-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with ethenylbenzene and phenylmethyl
2-methyl-2-propenoate, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxyl]propyl
ester (9CI) (CA INDEX NAME)

CM 1

CRN 5919-74-4

CMF C7 H12 O4



CM 2

CRN 65697-23-6

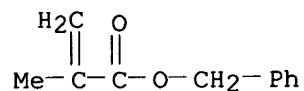
CMF (C11 H12 O2 . C8 H8 . C4 H6 O2)x

CCI PMS

CM 3

CRN 2495-37-6

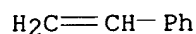
CMF C11 H12 O2



CM 4

CRN 100-42-5

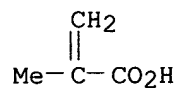
CMF C8 H8



CM 5

CRN 79-41-4

CMF C4 H6 O2



L23 ANSWER 36 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:256069 HCAPLUS

DN 129:17103

TI Cationic electrodeposition coating **compositions** having resistance to cratering

IN Ishii, Toshiyuki; Tsutsui, Keisuke; Ito, Koji; Sugimoto, Katsuhiko; Nakano, Shinji

PA Nippon Paint Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

IC ICM C09D005-44
ICS C09D201-00; C09D133-00
CC 42-10 (Coatings, Inks, and Related Products)
Section cross-reference(s): 55

FAN.CNT 1

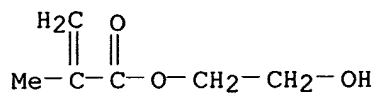
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10110125	A2	19980428	JP 1996-284706	19961007
AB	Coating materials contain film-forming resins, hardening agents, and 1-20% (vs. total resin solids) carboxy group-contg. acrylic resins having no.-av. mol. wt. 1000-50000 and acid no. 1-50 as crater preventers. Thus, a coating for phosphated galvanized steel contained an epoxy cationic resin, a polyurethane crosslinking agent, and azobiscyanovaleric acid-initiated Bu acrylate-2-hydroxyethyl methacrylate-Me methacrylate copolymer as a crater preventer.				
ST	cationic electrodeposition coating crater preventer; carboxy acrylic resin crater preventer				
IT	Azo compounds RL: CAT (Catalyst use); USES (Uses) (cationic electrodeposition coating compns. contg. cationic resins and hardening agents and crater preventers and pigment pastes)				
IT	Galvanized steel RL: MSC (Miscellaneous) (cationic electrodeposition coating compns. contg. cationic resins and hardening agents and crater preventers and pigment pastes)				
IT	Electrodeposition (cationic; cationic electrodeposition coating compns. contg. cationic resins and hardening agents and crater preventers and pigment pastes)				
IT	Polyurethanes, uses RL: MOA (Modifier or additive use); USES (Uses) (crosslinking agents; cationic electrodeposition coating compns. contg. cationic resins and hardening agents and crater preventers and pigment pastes)				
IT	Imines RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (ketimines, reaction products with epoxy resins and methylethanolamine; cationic electrodeposition coating compns. contg. cationic resins and hardening agents and crater preventers and pigment pastes)				
IT	Vinyl compounds, uses RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses) (polymers, carboxy group-contg.; cationic electrodeposition coating compns. contg. cationic resins and hardening agents and crater preventers and pigment pastes)				
IT	Crosslinking agents (polyurethanes; cationic electrodeposition coating compns. contg. cationic resins and hardening agents and crater preventers and pigment pastes)				
IT	Polymerization catalysts (radical; cationic electrodeposition coating compns. contg. cationic resins and hardening agents and crater preventers and pigment pastes)				
IT	Epoxy resins, uses RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (reaction products with methylethanolamine and diethylenetriamine Me iso-Bu diketimine; cationic electrodeposition coating compns. contg. cationic resins and hardening agents and crater preventers and				

- pigment pastes)
- IT 25068-38-6DP, Epo Tohto YD 014, reaction products with methylethanolamine and diethylenetriamine Me iso-Bu diketimine
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(Epo Tohto YD 014; cationic electrodeposition coating **compns.** contg. cationic resins and hardening agents and crater preventers and pigment pastes)
- IT 2638-94-0, 4,4'-Azobis(4-cyanovaleric acid) 27189-40-8,
2,2'-Azobis(2-methylpropionic acid) 63462-44-2 207614-38-8
207614-39-9 207614-40-2
RL: CAT (Catalyst use); USES (Uses)
(cationic electrodeposition coating **compns.** contg. cationic resins and hardening agents and crater preventers and pigment pastes)
- IT 109-83-1DP, reaction products with epoxy resins and diethylenetriamine Me iso-Bu diketimine 10595-60-5DP, Diethylenetriamine methyl isobutyl diketimine, reaction products with epoxy resins and methylethanolamine
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(cationic electrodeposition coating **compns.** contg. cationic resins and hardening agents and crater preventers and pigment pastes)
- IT 25951-39-7P, Butyl acrylate-2-hydroxyethyl methacrylate-methyl methacrylate copolymer 207614-34-4P, Cyclohexyl acrylate-2-ethylhexyl acrylate-4-hydroxybutyl acrylate copolymer 207614-35-5P, Acrylic acid-butyl methacrylate-2-ethylhexyl methacrylate-2-hydroxyethyl acrylate-2-methoxyethyl acrylate copolymer 207614-36-6P, Acrylic acid-butyl acrylate-2-ethylhexyl methacrylate-2-hydroxyethyl acrylate-2-methoxyethyl acrylate copolymer 207614-37-7P, Acrylic acid-butyl acrylate-2-ethylhexyl methacrylate-2-hydroxyethyl acrylate copolymer
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(crater preventers; cationic electrodeposition coating **compns.** . contg. cationic resins and hardening agents and crater preventers and pigment pastes)
- IT 96-29-7DP, Methyl ethyl ketoxime, reaction products with polyurethanes 30322-28-2DP, Hexamethylene diisocyanate-trimethylolpropane copolymer, reaction products with Me Et ketoxime
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(hardening agents; cationic electrodeposition coating **compns.** contg. cationic resins and hardening agents and crater preventers and pigment pastes)
- IT 25951-39-7P, Butyl acrylate-2-hydroxyethyl methacrylate-methyl methacrylate copolymer 207614-34-4P, Cyclohexyl acrylate-2-ethylhexyl acrylate-4-hydroxybutyl acrylate copolymer 207614-35-5P, Acrylic acid-butyl methacrylate-2-ethylhexyl methacrylate-2-hydroxyethyl acrylate-2-methoxyethyl acrylate copolymer 207614-36-6P, Acrylic acid-butyl acrylate-2-ethylhexyl methacrylate-2-hydroxyethyl acrylate-2-methoxyethyl acrylate copolymer 207614-37-7P, Acrylic acid-butyl acrylate-2-ethylhexyl methacrylate-2-hydroxyethyl acrylate copolymer
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(crater preventers; cationic electrodeposition coating **compns.** . contg. cationic resins and hardening agents and crater preventers and pigment pastes)
- RN 25951-39-7 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with butyl 2-propenoate and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

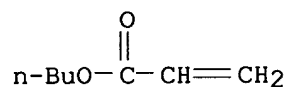
CMF C6 H10 O3



CM 2

CRN 141-32-2

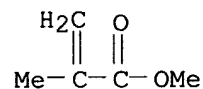
CMF C7 H12 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



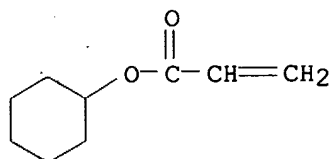
RN 207614-34-4 HCAPLUS

CN 2-Propenoic acid, cyclohexyl ester, polymer with 2-ethylhexyl 2-propenoate and 4-hydroxybutyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 3066-71-5

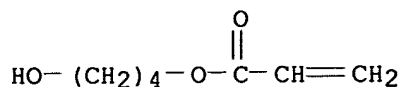
CMF C9 H14 O2



CM 2

CRN 2478-10-6

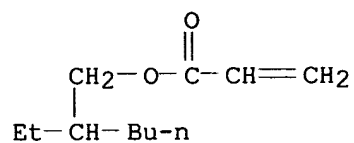
CMF C7 H12 O3



CM 3

CRN 103-11-7

CMF C11 H20 O2



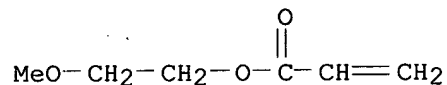
RN 207614-35-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-ethylhexyl
2-methyl-2-propenoate, 2-hydroxyethyl 2-propenoate, 2-methoxyethyl
2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 3121-61-7

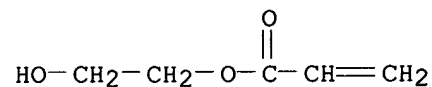
CMF C6 H10 O3



CM 2

CRN 818-61-1

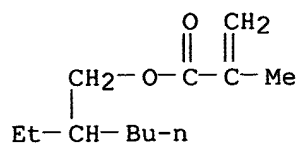
CMF C5 H8 O3



CM 3

CRN 688-84-6

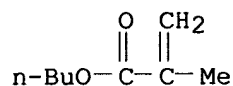
CMF C12 H22 O2



CM 4

CRN 97-88-1

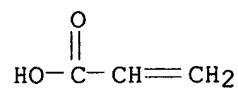
CMF C8 H14 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



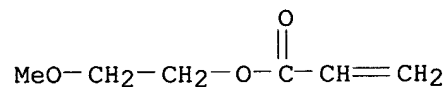
RN 207614-36-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with butyl .
 2-propenoate, 2-hydroxyethyl 2-propenoate, 2-methoxyethyl 2-propenoate and
 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 3121-61-7

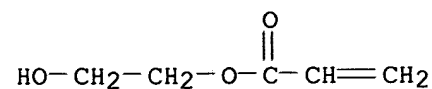
CMF C6 H10 O3



CM 2

CRN 818-61-1

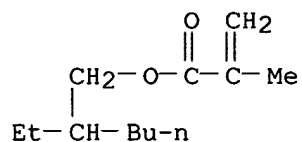
CMF C5 H8 O3



CM 3

CRN 688-84-6

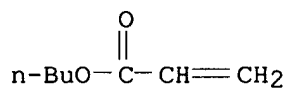
CMF C12 H22 O2



CM 4

CRN 141-32-2

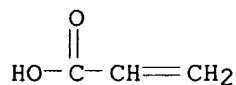
CMF C7 H12 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



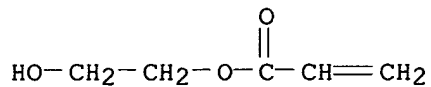
RN 207614-37-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with butyl
2-propenoate, 2-hydroxyethyl 2-propenoate and 2-propenoic acid (9CI) (CA
INDEX NAME)

CM 1

CRN 818-61-1

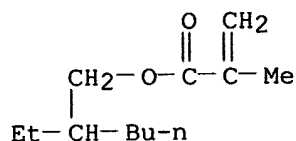
CMF C5 H8 O3



CM 2

CRN 688-84-6

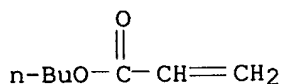
CMF C12 H22 O2



CM 3

CRN 141-32-2

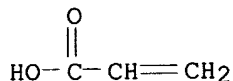
CMF C7 H12 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



L23 ANSWER 37 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:227006 HCAPLUS

DN 128:295876

TI Pigment-dispersed resin **compositions** with storage stability and their coatings useful at low temperature

IN Okuda, Tomohisa; Shimojo, Susumu; Ooshita, Akinao

PA Nippon Synthetic Chemical Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D017-00

ICS C08F002-44; C09C001-00; C09D183-02; C09D183-10

CC 42-7 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10095949	A2	19980414	JP 1996-271391	19960920
AB	Title compsn. comprise pigments and polymers prepd. by radical polymn. of unsatd. compds. in the presence of silicate oligomers RO[Si(OR)2O]nR (R = H, C1-4 alkyl, Ph; n = 2-30) in org. solvents. Polymg. Bu acrylate (I), Bu methacrylate (II), iso-Bu methacrylate, and 3-methacryloxypropyltrimethoxysilane (III) in mineral terpene contg. a peroxide and hydrolyzed Si(OMe)4 condensate and mixing with TiO2 gave a compn. , which was further mixed with a mineral terpene soln. contg. I-Me acrylate-Me methacrylate (IV)-styrene copolymer (prepd. in the presence of II-III-IV-2-ethylhexyl acrylate-stearyl methacrylate copolymer				

dispersant) to form a coating showing good storage stability at 20.degree. over 3 mo and forming films with good acid, alkali, solvent, water, soil, and weather resistance and no cracks or exfoliation after 10 cycles of soaking in 20.degree. water for 18 h, then leaving at -40.degree. for 3 h, and at 60.degree. for 3 h.

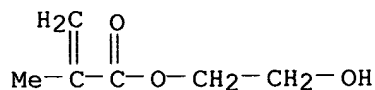
- ST pigment dispersibility acrylic graft siloxane **compn**; storage stability acrylic coating pigment dispersion; cold resistance acrylic coating pigment dispersion
- IT Polysiloxanes, uses
Polysiloxanes, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic, graft, for pigment dispersions; manuf. of pigment-dispersed resin **compns.** for storage-stable and cold-resistant acrylic coatings)
- IT Acrylic polymers, uses
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(coating binders; manuf. of pigment-dispersed resin **compns.** for storage-stable and cold-resistant acrylic coatings)
- IT Coating materials
Coating materials
(cold-resistant; manuf. of pigment-dispersed resin **compns.** for storage-stable and cold-resistant acrylic coatings)
- IT Pigments, nonbiological
(manuf. of pigment-dispersed resin **compns.** for storage-stable and cold-resistant acrylic coatings)
- IT 51998-22-2P, Butyl acrylate-methyl acrylate-methyl methacrylate-styrene copolymer **86797-50-4P**, Butyl methacrylate-isobutyl methacrylate-2-hydroxyethyl methacrylate copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(coating binders; manuf. of pigment-dispersed resin **compns.** for storage-stable and cold-resistant acrylic coatings)
- IT **202406-32-4P**, Butyl methacrylate-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-methyl methacrylate-stearyl methacrylate copolymer **202414-91-3P**
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(dispersant for prepn. of nonaq. acrylic coating binders; manuf. of pigment-dispersed resin **compns.** for storage-stable and cold-resistant acrylic coatings)
- IT **206054-38-8P 206054-39-9P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(graft, for pigment dispersions; manuf. of pigment-dispersed resin **compns.** for storage-stable and cold-resistant acrylic coatings)
- IT 13463-67-7, Titania, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(manuf. of pigment-dispersed resin **compns.** for storage-stable and cold-resistant acrylic coatings)
- IT **86797-50-4P**, Butyl methacrylate-isobutyl methacrylate-2-hydroxyethyl methacrylate copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(coating binders; manuf. of pigment-dispersed resin **compns.** for storage-stable and cold-resistant acrylic coatings)
- RN **86797-50-4** HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-hydroxyethyl

2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

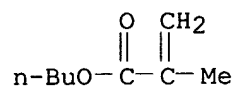
CMF C6 H10 O3



CM 2

CRN 97-88-1

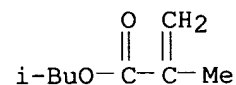
CMF C8 H14 O2



CM 3

CRN 97-86-9

CMF C8 H14 O2



IT 202406-32-4P, Butyl methacrylate-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-methyl methacrylate-stearyl methacrylate copolymer

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(dispersant for prepn. of nonaq. acrylic coating binders; manuf. of pigment-dispersed resin compns. for storage-stable and cold-resistant acrylic coatings)

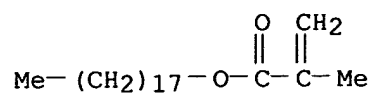
RN 202406-32-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and octadecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 32360-05-7

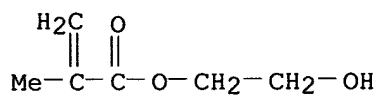
CMF C22 H42 O2



CM 2

CRN 868-77-9

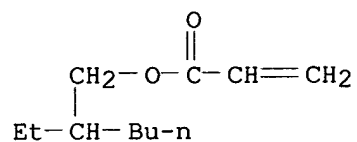
CMF C6 H10 O3



CM 3

CRN 103-11-7

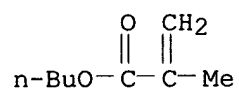
CMF C11 H20 O2



CM 4

CRN 97-88-1

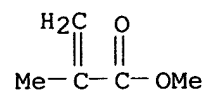
CMF C8 H14 O2



CM 5

CRN 80-62-6

CMF C5 H8 O2



IT 206054-39-9P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(graft, for pigment dispersions; manuf. of pigment)

-dispersed resin **compns.** for storage-stable and cold-resistant acrylic coatings)

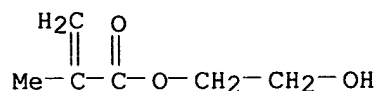
RN 206054-39-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, 2-methylpropyl 2-methyl-2-propenoate and silicic acid (H4SiO4) tetramethyl ester, graft (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

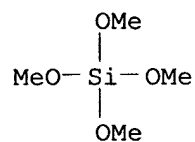
CMF C6 H10 O3



CM 2

CRN 681-84-5

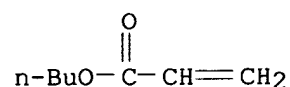
CMF C4 H12 O4 Si



CM 3

CRN 141-32-2

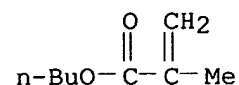
CMF C7 H12 O2



CM 4

CRN 97-88-1

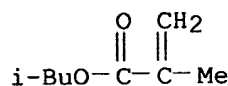
CMF C8 H14 O2



CM 5

CRN 97-86-9

CMF C8 H14 O2



L23 ANSWER 38 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:116000 HCAPLUS

DN 128:206067

TI Stable nonaqueous pigment dispersions and their coating
compositions

IN Iwase, Takashi; Shintani, Takehiko; Uchiyama, Noriyuki; Ishikawa, Hiroyuki

PA Sakata Inx Corp., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09D017-00

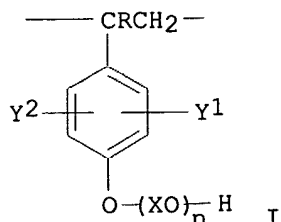
ICS C09D011-10

CC 42-13 (Coatings, Inks, and Related Products)

Section cross-reference(s): 46, 74

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10046095	A2	19980217	JP 1996-208031	19960807
GI					



AB Title dispersions comprise pigments, solvents, binders, and .gtoreq.0.2% (based on 100 parts pigments) dispersants which are graft copolymers having wt.-av. mol. wt. (Mw) of 3,000-100,000 and .gtoreq.5 mol% I (R = H, Me; X = C2-4 hydrocarbylene; Y 1, Y2 = H, halogen atom; n = 1-100) units. A dispersion comprising pigments, benzyl methacrylate-methacrylic acid copolymer, propylene glycol Me ether acetate, and ethylene oxide-Maruka Lyncur M S1 graft copolymer (II, with Mw 4,000) was kneaded with an initiator and NK Ester TMA-A to form a resist contg. 10% (based on total pigment) II and showing stable viscoelasticity after 1 mo at 40.degree., which was spread on a glass plate to a thickness of 0.9-1.1 .mu.m and cured with UV to form a film with good visible light transparency and heat resistance (250.degree. 1 h).

ST polyoxyalkylene polyvinylphenol graft polymer dispersant pigment; alkoxylated polyvinylphenol dispersant pigment resist stability; heat resistance resist nonaq pigment dispersion

IT Acrylic polymers, uses

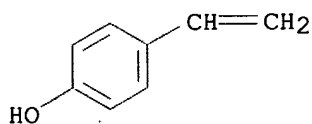
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

- (binder; oxyalkylene-grafted polyvinylphenol dispersant-contg. nonaq. pigment dispersions for heat-resistant and stable resists)
- IT Vinyl compounds, uses
Vinyl compounds, uses
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(graft polymers; oxyalkylene-grafted polyvinylphenol dispersant-contg. nonaq. pigment dispersions for heat-resistant and stable resists)
- IT Dispersing agents
Pigments, nonbiological
Resists
(oxyalkylene-grafted polyvinylphenol dispersant-contg. nonaq. pigment dispersions for heat-resistant and stable resists)
- IT 198996-44-0P, Benzyl methacrylate-methacrylic acid-trimethylolpropane triacrylate copolymer
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binder; oxyalkylene-grafted polyvinylphenol dispersant-contg. nonaq. pigment dispersions for heat-resistant and stable resists)
- IT 140456-37-7P 204135-60-4P 204135-61-5P 204135-62-6P 204135-63-7P 204135-64-8P 204135-65-9P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(oxyalkylene-grafted polyvinylphenol dispersant-contg. nonaq. pigment dispersions for heat-resistant and stable resists)
- IT 204135-65-9P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(oxyalkylene-grafted polyvinylphenol dispersant-contg. nonaq. pigment dispersions for heat-resistant and stable resists)
- RN 204135-65-9 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with 4-ethenylphenol and methyloxirane, graft (9CI) (CA INDEX NAME)

CM 1

CRN 2628-17-3

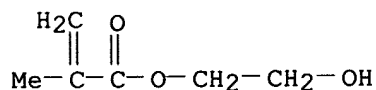
CMF C8 H8 O



CM 2

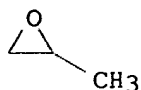
CRN 868-77-9

CMF C6 H10 O3



CM 3

CRN 75-56-9
CMF C3 H6 O



L23 ANSWER 39 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:632909 HCAPLUS

DN 127:308467

TI Coated pigments, pigment **compositions**, and coating **compositions**

IN Imagawa, Ippei; Koide, Masashi; Ueki, Katsuyuki; Machida, Yasuaki; Iguchi, Akiyoshi

PA Toyo Ink Mfg. Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09C003-10

CC 42-6 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	JP 09249821	A2	19970922	JP 1996-60490	19960318
AB	Pigments are coated with a water-sol. reactive resin which is obtained by reacting neutralized tertiary amine-contg. vinyl copolymers with an .alpha.,.beta.-unsatd. compd. having an epoxy group. Thus phthalocyanine dye Lionol Blue FG 7351 was coated with a water-sol. resin obtained by reacting glycidyl methacrylate with lauryl methacrylate-N,N-dimethylaminoethyl methacrylate copolymer to give a coated pigment of this invention, 40 parts of which was then mixed with 60 parts of polyethylene to give a master batch, 2 parts of which was added to 100 parts of polypropylene. The pigmented polypropylene resin then was fabricated into fibers. The coated pigments have various uses in coatings, inks, and recording materials.				
ST	pigment vinyl polymer coated; dimethylaminoethyl methacrylate polymer pigment coating				
IT	Carbon black, uses RL: TEM (Technical or engineered material use); USES (Uses) (Mitsubishi Carbon 10; coated pigments, pigment compns. , and coating compns.)				
IT	Alkyd resins RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (Phthalkyd 235-50; coated pigments, pigment compns. , and coating compns.)				
IT	Coating materials Electrophotographic toners Inks Pigments, nonbiological (coated pigments, pigment compns. , and coating compns.)				
IT	Polypropene fibers, uses RL: IMF (Industrial manufacture); POF (Polymer in formulation); PREP (Preparation); USES (Uses)				

(coated pigments, pigment **compns.**, and coating **compns**
.)

IT Aminoplasts
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(coated pigments, pigment **compns.**, and coating **compns**
.)

IT Thermal-transfer printing materials
(inks; coated pigments, pigment **compns.**, and coating **compns.**)

IT Inks
(lithog.; coated pigments, pigment **compns.**, and coating **compns.**)

IT Hydrocarbon waxes, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(microcryst.; coated pigments, pigment **compns.**, and coating **compns.**)

IT Inks
(printing, thermal-transfer; coated pigments, pigment **compns**
., and coating **compns.**)

IT 5280-80-8
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(Cromophtal Yellow GR; coated pigments, pigment **compns.**, and coating **compns.**)

IT 24937-78-8, Ethylene-vinyl acetate copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(DQDJ 7197, Suntec EVA; coated pigments, pigment **compns.**, and coating **compns.**)

IT 57455-37-5, Gunjo 2000
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(Gunjo 2000; coated pigments, pigment **compns.**, and coating **compns.**)

IT 9002-88-4, UJ 790G
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(Hizex 2100, Sumikathene G 801, Sumikathene G 808; coated pigments, pigment **compns.**, and coating **compns.**)

IT 147-14-8
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(Lionol Blue FG 7351, Lionol Blue FG 7334P; coated pigments, pigment **compns.**, and coating **compns.**)

IT 25067-34-9, Ethylene-vinyl alcohol copolymer
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(Soarlite K; coated pigments, pigment **compns.**, and coating **compns.**)

IT 980-26-7, Fastogen super magenta RE 03 1047-16-1, Cinquasia Red YRT 759D
1309-37-1, Toda color 180ED, uses 6358-85-6, Lionol Yellow GGT
13463-67-7, Titanium oxide (TiO2), uses 14302-13-7, Lionol Green 2Y 301
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(coated pigments, pigment **compns.**, and coating **compns**
.)

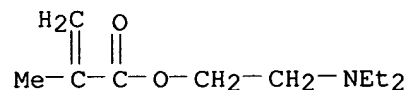
IT 9003-07-0, Noblen JH G 9003-08-1, Melan 28 106565-43-9, Hipol J 740
120250-43-3, Esbrite 500SB

- RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(coated pigments, pigment **compns.**, and coating **compns.**)
- IT 15625-89-5, Trimethylolpropane triacrylate
RL: TEM (Technical or engineered material use); USES (Uses)
(coated pigments, pigment **compns.**, and coating **compns.**)
- IT 106-91-2DP, reaction products with amino group-contg. vinyl polymers
26100-53-8DP, reaction products with glycidyl methacrylate
26246-82-2DP, N,N-Dimethylaminoethyl methacrylate-lauryl methacrylate copolymer, reaction products with glycidyl methacrylate
196702-44-ODP, reaction products with glycidyl methacrylate
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(coating resin for **pigments**; coated **pigments**, pigment **compns.**, and coating **compns.**)
- IT 9003-53-6, Polystyrene
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(impact-resistant; coated pigments, pigment **compns.**, and coating **compns.**)
- IT 79621-12-8, Tamanol 361
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(offset ink; coated pigments, pigment **compns.**, and coating **compns.**)
- IT 26100-53-8DP, reaction products with glycidyl methacrylate
26246-82-2DP, N,N-Dimethylaminoethyl methacrylate-lauryl methacrylate copolymer, reaction products with glycidyl methacrylate
196702-44-ODP, reaction products with glycidyl methacrylate
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(coating resin for **pigments**; coated **pigments**, pigment **compns.**, and coating **compns.**)
- RN 26100-53-8 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 105-16-8

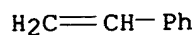
CMF C10 H19 N O2



CM 2

CRN 100-42-5

CMF C8 H8



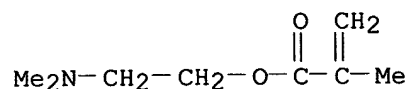
RN 26246-82-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with dodecyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 2867-47-2

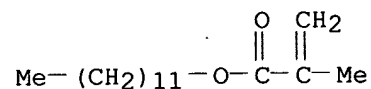
CMF C8 H15 N O2



CM 2

CRN 142-90-5

CMF C16 H30 O2



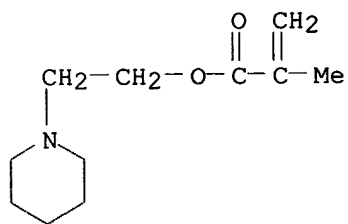
RN 196702-44-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with ethyl 2-propenoate, methyl 2-methyl-2-propenoate, 2-(1-piperidiny)ethyl 2-methyl-2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 19416-48-9

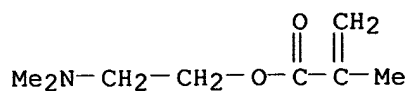
CMF C11 H19 N O2



CM 2

CRN 2867-47-2

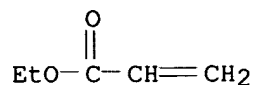
CMF C8 H15 N O2



CM 3

CRN 140-88-5

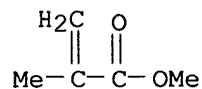
CMF C5 H8 O2



CM 4

CRN 80-62-6

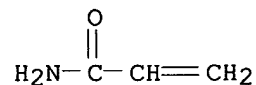
CMF C5 H8 O2



CM 5

CRN 79-06-1

CMF C3 H5 N O



L23 ANSWER 40 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:515056 HCAPLUS

DN 127:177780

TI Dispersing agent-treated organic and inorganic pigments and their coating
compositions

IN Tanaka, Sukeyuki; Okayasu, Hisaaki; Sugiyama, Sae

PA Ajinomoto Co., Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C09C003-10

ICS C09C001-36; C09D007-12

CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

PI JP 09183919 A2 19970715 JP 1995-343162 19951228

AB The pigments comprise org. pigments treated with dispersants having basic functional groups and inorg. pigments treated with dispersants having acidic functional groups. The coating **compns.** contain the treated pigments, solvents, and resins. Thus, an org. pigment (P-1) comprised poly(12-hydroxystearic acid) 3.3, Tioxide TR 92 66, xylene (I) 1.6, 2-methoxypropyl acetate (II) 1.6, and 90.0:150.0:155.4:45.2:159.5 Cardura E 10-isophthalic acid-adipic acid-trimethylolpropane-neopentyl glycol copolymer (PE-1) 27.5%. An inorg. pigment (P-6) comprised 19% I, 18% II, 18% a dispersant obtained by reacting 45.1 parts poly(.epsilon.-caprolactone) [prepd. in presence of Ti(Obu)₄ and octylic acid] and 15.7 parts 390.0:210.0 glycidyl methacrylate-Bu methacrylate copolymer, 29.2% PE-1, and 15% FW 200 (carbon black). A coating comprising P-1 49.1, P-6 5.5, PE-1 27, U-Van 220 17.9, and Modaflow 0.6% was sprayed onto a Zn phosphate-treated steel plate, flow coated, and baked at 140.degree. to give test pieces showing good adhesion to the substrate (JIS K 5400 8.5.2) and no flooding.

ST dispersant treated org inorg pigment coating; disperse dye treatment coating flooding prevention; hydroxystearic acid homopolymer dispersant titania pigment; acrylic epoxy polyester dispersant carbon black

IT Carbon black, uses
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(FW 200, treated with dispersants having basic functional groups; for coatings free of flooding)

IT Epoxy resins, uses
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(acrylic-polyester-, dispersants, for inorg. pigments; for coatings free of flooding)

IT Polyurethanes, uses
Polyurethanes, uses
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(acrylic-polyester-, graft, dispersants, for inorg. pigments; for coatings free of flooding)

IT Polyesters, uses
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(acrylic-polyurethane-, graft, dispersants, for inorg. pigments; for coatings free of flooding)

IT Polyesters, uses
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(dispersants, for inorg. pigments; for coatings free of flooding)

IT Coating materials
(dispersing agent-treated org. and inorg. pigments and their coatings free of flooding)

IT Aminoplasts
RL: MOA (Modifier or additive use); USES (Uses)
(dispersing agent-treated org. and inorg. pigments and their coatings free of flooding)

IT Pigments, nonbiological
(org. and inorg. pigments treated with dispersants for coatings free of flooding)

IT Polyurethanes, uses
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses)
(polyester-polyoxyalkylene-, dispersants, for inorg. pigments; for coatings free of flooding)

IT Polyoxyalkylenes, uses
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP

(Properties); PREP (Preparation); USES (Uses)
(reaction products with polycaprolactone and arom. aliph.
polyisocyanates, dispersants, for org. pigments; for coatings free of
flooding)

IT 65595-85-9P, Acrylic acid-butyl methacrylate-2-ethylhexyl
methacrylate-2-hydroxyethyl methacrylate-methyl methacrylate-styrene
copolymer 189700-71-8P
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)
(binders; dispersing agent-treated org. and inorg. pigments
and their coatings free of flooding)

IT 27924-99-8, Poly(12-hydroxystearic acid) 27941-02-2,
Poly(12-hydroxystearic acid), sru
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(dispersants, for inorg. pigments; for coatings free of flooding)

IT 502-44-3DP, 2-Oxepanone, reaction products with arom. aliph.
polyisocyanates and polyethylene glycol 25322-68-3DP, reaction products
with polycaprolactone and arom. aliph. polyisocyanates 193466-21-6P
193466-22-7P
RL: IMF (Industrial manufacture); MOA (Modifier or additive
use); PRP (Properties); PREP (Preparation); USES (Uses)
(dispersants, for org. pigments; for coatings free of
flooding)

IT 86753-77-7, Solspers 3000 154213-94-2, Disperbyk 161 154213-97-5,
Efka 46 178966-23-9, Disperbyk 110
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(dispersants, for org. pigments; for coatings free of flooding)

IT 9003-08-1, U-Van 220
RL: MOA (Modifier or additive use); USES (Uses)
(dispersing agent-treated org. and inorg. pigments and their coatings
free of flooding)

IT 13463-67-7, Titanium oxide (TiO₂), uses
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(treated with dispersants having acidic functional groups; for coatings
free of flooding)

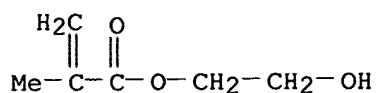
IT 147-14-8, Heliogen Blue L 6700F 193907-08-3, Hostaperm Violet RLS
RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(treated with dispersants having basic functional groups; for coatings
free of flooding)

IT 65595-85-9P, Acrylic acid-butyl methacrylate-2-ethylhexyl
methacrylate-2-hydroxyethyl methacrylate-methyl methacrylate-styrene
copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation);
PRP (Properties); TEM (Technical or engineered material use); PREP
(Preparation); USES (Uses)
(binders; dispersing agent-treated org. and inorg. pigments
and their coatings free of flooding)

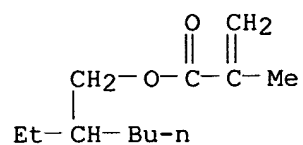
RN 65595-85-9 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ethenylbenzene,
2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate,
methyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

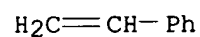
CRN 868-77-9
CMF C6 H10 O3



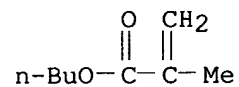
CM 2

CRN 688-84-6
CMF C12 H22 O2

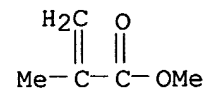
CM 3

CRN 100-42-5
CMF C8 H8

CM 4

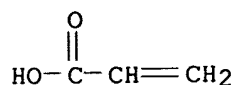
CRN 97-88-1
CMF C8 H14 O2

CM 5

CRN 80-62-6
CMF C5 H8 O2

CM 6

CRN 79-10-7
CMF C3 H4 O2



IT 193466-22-7P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); PREP (Preparation); USES (Uses) (dispersants, for org. pigments; for coatings free of flooding)

RN 193466-22-7 HCAPLUS

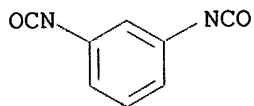
CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with (butoxymethyl)oxirane, 1,3-diisocyanatomethylbenzene, N-[3-(dimethylamino)propyl]-2-propenamide and 2-oxepanone, graft (9CI) (CA INDEX NAME)

CM 1

CRN 26471-62-5

CMF C9 H6 N2 O2 .

CCI IDS

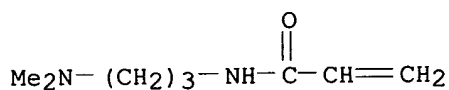


D1-Me

CM 2

CRN 3845-76-9

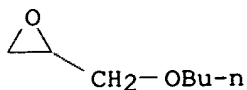
CMF C8 H16 N2 O



CM 3

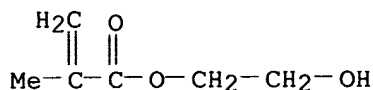
CRN 2426-08-6

CMF C7 H14 O2



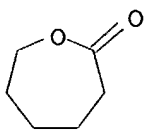
CM 4

CRN 868-77-9
CMF C6 H10 O3



CM 5

CRN 502-44-3
CMF C6 H10 O2



L23 ANSWER 41 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:499606 HCAPLUS

DN 127:169081

TI Pigment-dispersed radiation-sensitive **composition** for color filter

IN Suzuki, Nobuo; Kato, Eiichi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 39 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03F007-027

ICS C08F290-04; G02B005-20; G03F007-004; G03F007-033

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 73

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09179295	A2	19970711	JP 1995-333472	19951221
AB	<p>The compn. contains a graft copolymer binder comprising (A) a monofunctional macromonomer with wt.-av. mol. wt. (Mw) .ltoreq.2 .times. 104, in which a polymg. double bond group CHCl:Cc2V0 [I; $\text{V0} = \text{CO}_2, \text{OCO}, \text{CH}_2\text{OCO}, \text{CH}_2\text{CO}_2, \text{O}, \text{SO}_2, \text{CO}, \text{CONHCO}_2, \text{CONHCONH}, \text{CONHSO}_2, \text{CONP}_3, \text{SO}_2\text{NP}_3$ ($\text{P}_3 = \text{H}, \text{hydrocarbon}$), C_6H_4; $\text{c1}, \text{c2} = \text{H}, \text{halo}, \text{CN}, \text{hydrocarbon}, \text{CO}_2\text{Z}'$ which may link via a hydrocarbon group ($\text{Z}' = \text{H}, \text{hydrocarbon}$ which may be substituted)] combines to 1 end of its principal chain contg. .gtoreq.1 of polymer components CHd1Cd2(V1Q1) (II) and CHd1Cd2Q0 [$\text{Q1} = \text{C1-18 aliph.}, \text{C6-12 arom.}$; d1 and d2 are the same meaning as c1 and c2 in I; $\text{Q0} = \text{CN}, \text{CONH}_2, \text{C}_6\text{H}_4\text{T}$ ($\text{T} = \text{H}, \text{halo}, \text{hydrocarbon}, \text{alkoxy}, \text{CO}_2\text{Z}''$ ($\text{Z}'' = \text{alkyl}, \text{aralkyl}, \text{aryl}$)))] and (B) a monomer CHel:Ce2(V2Q2) (V2 is the same contents as V1 in II; e1 and e2 are the same contents as c1 and c2 in II). A pigment is dispersed well in the compn. and the compn. shows good coatability and provides high quality color filters for liq.-crystal display devices and solid-state image pickup devices.</p>				

- ST color filter radiation sensitive **compn** binder; optical filter radiation sensitive **compn** binder; liq crystal display color filter; solid state image pickup color filter; methacrylate graft polymer binder color filter
- IT Liquid crystal displays
(color filter for; pigment-dispersed radiation-sensitive **compn** . for color filter)
- IT Optical filters
(color; pigment-dispersed radiation-sensitive **compn.** for color filter)
- IT Optical imaging devices
(solid-state image pickup devices, color filter for; pigment-dispersed radiation-sensitive **compn.** for color filter)
- IT 137316-98-4P, 2,6-Dichlorophenyl methacrylate-propyl methacrylate-styrene graft copolymer
RL: MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(binder, **compn.** contg.; pigment-dispersed radiation-sensitive **compn.** for color filter)
- IT 112966-33-3P, Butyl methacrylate-methyl methacrylate graft copolymer 128338-41-0P, 2-Cyanoethyl methacrylate-ethyl methacrylate-propyl methacrylate graft copolymer 128440-91-5P, Ethyl methacrylate-methyl methacrylate graft copolymer 137316-94-0P, 2-Chlorophenyl methacrylate-propyl methacrylate graft copolymer 137317-21-6P, Acrylic acid-ethyl methacrylate-methyl methacrylate graft copolymer
RL: MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(binder; pigment-dispersed radiation-sensitive **compn** . for color filter)
- IT 9003-42-3P, Ethyl methacrylate homopolymer
RL: MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(comb-branched, binder; pigment-dispersed radiation-sensitive **compn.** for color filter)
- IT 9011-14-7DP, Methyl methacrylate homopolymer, carboxy-terminated, reaction products with glycidyl methacrylate
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(macromonomer for binder prepn.; pigment-dispersed radiation-sensitive **compn.** contg. methacrylate graft copolymer binder for color filter)
- IT 106-91-2DP, Glycidyl methacrylate, reaction products with carboxy-terminated alkyl methacrylate homopolymers 9003-42-3DP, Ethyl methacrylate homopolymer, carboxy-terminated, reaction products with glycidyl methacrylate 9003-63-8DP, Butyl methacrylate homopolymer, carboxy-terminated, reaction products with glycidyl methacrylate 25609-74-9DP, Propyl methacrylate homopolymer, carboxy-terminated, reaction products with glycidyl methacrylate 127909-19-7DP, 2,6-Dichlorophenyl methacrylate homopolymer, carboxy-terminated, reaction products with glycidyl methacrylate
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(macromonomer for binder prepn.; pigment-dispersed radiation-sensitive **compn.** for color filter)
- IT 128338-41-0P, 2-Cyanoethyl methacrylate-ethyl methacrylate-propyl methacrylate graft copolymer
RL: MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(binder; pigment-dispersed radiation-sensitive **compn** . for color filter)

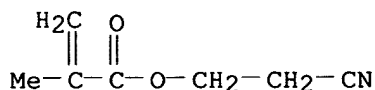
RN 128338-41-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-cyanoethyl ester, polymer with ethyl 2-methyl-2-propenoate and propyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 4513-53-5

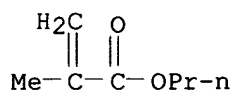
CMF C7 H9 N O2



CM 2

CRN 2210-28-8

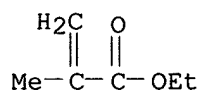
CMF C7 H12 O2



CM 3

CRN 97-63-2

CMF C6 H10 O2



L23 ANSWER 42 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:483030 HCAPLUS

DN 127:183335

TI Radiation-sensitive **composition** useful in production of color filter

IN Suzuki, Nobuo; Kato, Eiichi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 37 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM G03F007-033

ICS C08F299-04; G02B005-20; G03F007-004; C08L033-04

CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 38

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

PI JP 09171253 A2 19970630 JP 1995-331855 19951220

AB The title **compn.** contains (a) a binder resin of a graft copolymer resin with wt. av. mol. wt. (Mw) 3 .times. 104-1 .times. 106 contg., as a polymer component, .gtoreq.1 of polyester-type macromonomers with Mw 1 .times. 103-1.5 .times. 104 CHf1:Cf2[X1Y1Z1(OCW1CO2W2O)R61] and CHf3:Cf4[X2Y2Z2(OCW3O)R62] [(OCW1CO2W2O) and (OCW3O) indicate repeating units; f1-4 = H, halo, CN, C1-8 hydrocarbon, CO2V1, CO2V2 which links via C1-8 hydrocarbons (V1, V2 = C1-18 hydrocarbon); X1, X2 = single bond, CO2, OCO, (CH2)n1CO2, (CH2)n2OCO (n1, n2 = 1-3), CONd1 (d1 = H, C1-12 hydrocarbon), CONHCONH, CONHCO2, O, C6H4, SO2; Y1, Y2 = linking group; Z1, Z2 = CH2, O, NH; W1, W2 = divalent aliph. or divalent arom. group which may contain .gtoreq.1 linking group selected from O, S, Nd2 (d2 = H, C1-12 hydrocarbon), SO2, CO2, OCO, CONHCO, NHCONH, CONd3, SO2Nd4, and Sid3d4 (d3, d4 = H, C1-12 hydrocarbon), org. residue composed of these residues; R61, R62 = H, hydrocarbon, COR63 (R63 = hydrocarbon); W3 = divalent aliph. group], (b) a radiation-sensitive compd., and (c) a pigment. The pigment is dispersed well as fine particles in the **compn.**, and the **compn.** shows good coatability and provides high quality color filters.

ST color filter radiation sensitive resist pigment; polyester acrylic graft copolymer resist

IT Polyesters, preparation
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic; radiation-sensitive resist **compn.** contg. polyester graft copolymer and pigment for color filters)

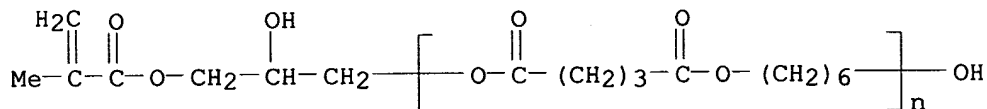
IT Optical filters
(radiation-sensitive resist **compn.** contg. polyester graft copolymer and pigment for color filters)

IT Resists
(radiation-sensitive; radiation-sensitive resist **compn.** contg. polyester graft copolymer and pigment for color filters)

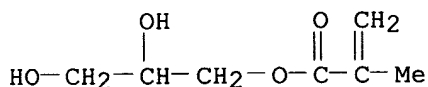
IT 135254-63-6P 135254-64-7P 135254-65-8P 135977-08-1P 135977-13-8P 137299-33-3P 145685-45-6P 145685-46-7P, 1,4-Butanediol-succinic anhydride copolymer 2-hydroxyethyl methacrylate monoester
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(macromonomer; prepn. of acrylic polyester graft copolymer)

IT 135803-37-1P 135868-48-3P, 1,4-Butanediol-ethyl methacrylate-succinic anhydride graft copolymer 135868-70-1P 135868-74-5P 135868-75-6P 135868-76-7P 135868-77-8P 135868-78-9P 135868-81-4P 141431-84-7P 144056-87-1P 144057-35-2P 144820-47-3P 144857-85-2P 144857-86-3P 144857-87-4P 144857-93-2P 144857-94-3P 144857-95-4P 144857-96-5P 144857-97-6P 144884-99-1P 193751-90-5P 193751-91-6P 193751-92-7P 193751-93-8P 193751-94-9P 193751-95-0P 193751-96-1P 193751-97-2P 193751-98-3P 193751-99-4P 193752-00-0P 193752-01-1P 193752-02-2P 193752-03-3P 193752-04-4P 193752-06-6P 193752-08-8P 193752-10-2P 193752-13-5P 193752-15-7P 193752-17-9P 193752-19-1P 193752-21-5P 193752-23-7P 193752-25-9P 193752-27-1P 193752-31-7P 193752-32-8P 193752-33-9P 193752-34-0P 193752-35-1P 193752-36-2P 193752-37-3P 193752-38-4P 193752-45-3P 193752-46-4P 193752-49-7P 193752-52-2P 193752-54-4P 193752-58-8P 193752-59-9P 193752-60-2P 193752-61-3P 193752-62-4P 193752-63-5P 193752-64-6P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

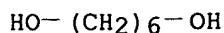
- (radiation-sensitive resist **compn.** contg. polyester graft copolymer and **pigment** for color filters)
- IT 1707-68-2, 2-(2-Chlorophenyl)-4,5-diphenylimidazolyl dimer 5516-22-3, 7-[(4-Chloro-6-(diethylamino)-s-triazin-2-yl)amino-3-phenylcoumarin 192386-54-2, 4-[o-Bromo-p-N,N-di(ethoxycarbonyl)aminophenyl]-2,6-di(trichloromethyl)-s-triazine 193751-89-2, 4-[p-N,N-Di(ethoxycarbonyl)aminophenyl]-2,6-di(trichloromethyl)-s-triazine
- RL: TEM (Technical or engineered material use); USES (Uses)
(radiation-sensitive resist **compn.** contg. polyester graft copolymer and pigment for color filters)
- IT 135254-64-7P 135977-08-1P 135977-13-8P
145685-46-7P, 1,4-Butanediol-succinic anhydride copolymer 2-hydroxyethyl methacrylate monoester
- RL: PNU (Preparation, unclassified); RCT (Reactant); **PREP (Preparation)**; RACT (Reactant or reagent)
(macromonomer; prepn. of acrylic polyester graft copolymer)
- RN 135254-64-7 HCAPLUS
- CN Poly[oxy(1,5-dioxo-1,5-pentanediyloxy-1,6-hexanediyloxy)-.alpha.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-.omega.-hydroxy- (9CI) (CA INDEX NAME)]



- RN 135977-08-1 HCAPLUS
- CN 2H-Pyran-2,6(3H)-dione, dihydro-, polymer with 1,6-hexanediol, 2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl ester (9CI) (CA INDEX NAME)
- CM 1
- CRN 5919-74-4
- CMF C7 H12 O4



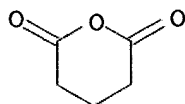
- CM 2
- CRN 162811-60-1
- CMF (C6 H14 O2 . C5 H6 O3)x
- CCI PMS
- CM 3
- CRN 629-11-8
- CMF C6 H14 O2



CM 4

CRN 108-55-4

CMF C5 H6 O3



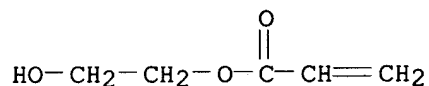
RN 135977-13-8 HCAPLUS

CN Octadecanoic acid, 12-hydroxy-, homopolymer, 2-[(1-oxo-2-propenyl)oxy]ethyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 818-61-1

CMF C5 H8 O3



CM 2

CRN 27924-99-8

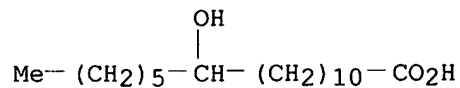
CMF (C18 H36 O3)x

CCI PMS

CM 3

CRN 106-14-9

CMF C18 H36 O3



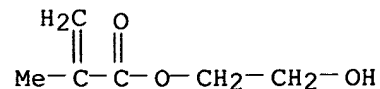
RN 145685-46-7 HCAPLUS

CN 2,5-Furandione, dihydro-, polymer with 1,4-butanediol, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

CMF C6 H10 O3



CM 2

CRN 30327-76-5

CMF (C4 H10 O2 . C4 H4 O3)x

CCI PMS

CM 3

CRN 110-63-4

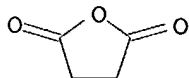
CMF C4 H10 O2

HO-(CH₂)₄-OH

CM 4

CRN 108-30-5

CMF C4 H4 O3



IT 144057-35-2P 144884-99-1P 193751-90-5P
193751-91-6P 193751-92-7P 193751-93-8P
193751-94-9P 193751-95-0P 193751-96-1P
193751-97-2P 193751-98-3P 193751-99-4P
193752-00-0P 193752-01-1P 193752-02-2P
193752-03-3P 193752-04-4P 193752-23-7P
193752-32-8P 193752-33-9P 193752-34-0P
193752-35-1P 193752-36-2P 193752-38-4P
193752-61-3P

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)

(radiation-sensitive resist **compn.** contg. polyester graft copolymer and **pigment** for color filters)

RN 144057-35-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with dihydro-2H-pyran-2,6(3H)-dione, 1,6-hexanediol and 2-propenamide, graft (9CI) (CA INDEX NAME)

CM 1

CRN 629-11-8

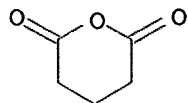
CMF C6 H14 O2

HO-(CH₂)₆-OH

CM 2

CRN 108-55-4

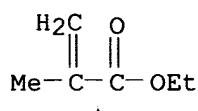
CMF C5 H6 O3



CM 3

CRN 97-63-2

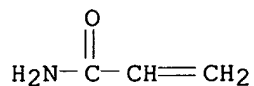
CMF C6 H10 O2



CM 4

CRN 79-06-1

CMF C3 H5 N O



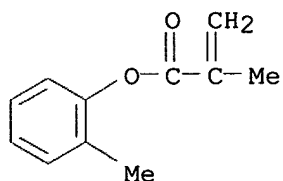
RN 144884-99-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-cyanoethyl ester, polymer with dihydro-2H-pyran-2,6(3H)-dione, 2-ethyl-1,3-propanediol and 2-methylphenyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 74937-80-7

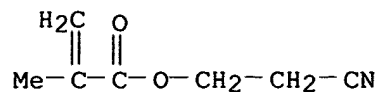
CMF C11 H12 O2



CM 2

CRN 4513-53-5

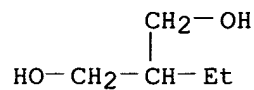
CMF C7 H9 N O2



CM 3

CRN 2612-29-5

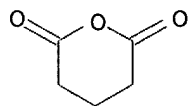
CMF C5 H12 O2



CM 4

CRN 108-55-4

CMF C5 H6 O3



RN 193751-90-5 HCAPLUS

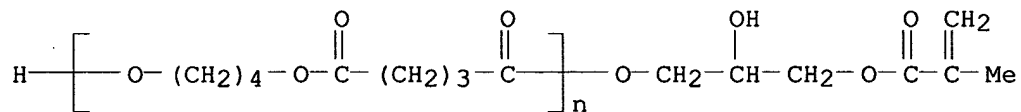
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
 .alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propoxy]poly[oxy-1,4-butanediolyoxy(1,5-dioxo-1,5-
 pentanediyl)] and methyl 2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 135327-14-9

CMF (C9 H14 O4)_n C7 H12 O4

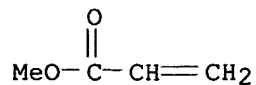
CCI PMS



CM 2

CRN 96-33-3

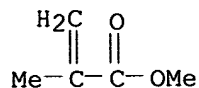
CMF C4 H6 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



RN 193751-91-6 HCAPLUS

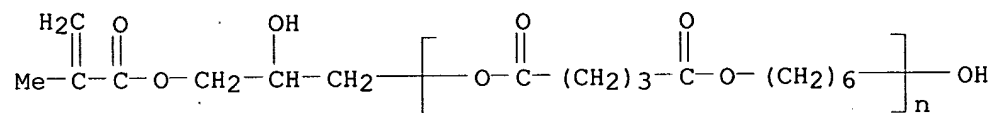
CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
.alpha.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-.omega.-
hydroxypoly[oxy(1,5-dioxo-1,5-pentanediyloxy-1,6-hexanediyloxy)], graft (9CI)
(CA INDEX NAME)

CM 1

CRN 135254-64-7

CMF (C11 H18 O4)_n C7 H12 O4

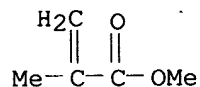
CCI PMS



CM 2

CRN 80-62-6

CMF C5 H8 O2



RN 193751-92-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
.alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
propenyl)oxy]propoxy]poly[oxy(2,2-dimethyl-1,3-propanediyloxy(1,4-dioxo-
1,4-butanediyloxy)], graft (9CI) (CA INDEX NAME)

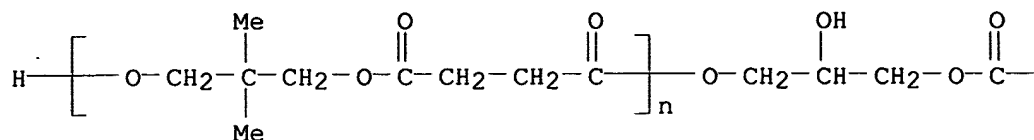
CM 1

CRN 135327-17-2

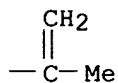
CMF (C9 H14 O4)_n C7 H12 O4

CCI PMS

PAGE 1-A



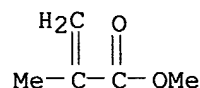
PAGE 1-B



CM 2

CRN 80-62-6

CMF C5 H8 O2



RN 193751-93-8 HCAPLUS

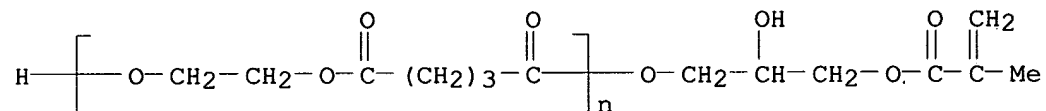
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with
 .alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propoxy]poly[oxy-1,2-ethanediyl]oxy(1,5-dioxo-1,5-
 pentanediyl)] and methyl 2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 135327-19-4

CMF (C7 H10 O4)_n C7 H12 O4

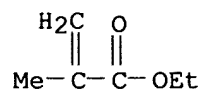
CCI PMS



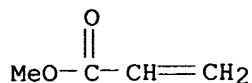
CM 2

CRN 97-63-2

CMF C6 H10 O2



CM 3

CRN 96-33-3
CMF C4 H6 O2

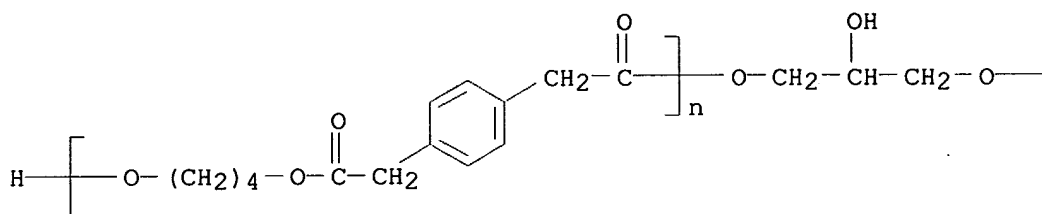
RN 193751-94-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, propyl ester, polymer with
 .alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propoxy]poly[oxy-1,4-butanediyl]oxy(1-oxo-1,2-ethanediyl)-1,4-
 phenylene(2-oxo-1,2-ethanediyl)], graft (9CI) (CA INDEX NAME)

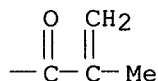
CM 1

CRN 135327-21-8
CMF (C14 H16 O4)_n C7 H12 O4
CCI PMS

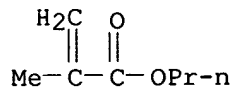
PAGE 1-A



PAGE 1-B



CM 2

CRN 2210-28-8
CMF C7 H12 O2

RN 193751-95-0 HCAPLUS

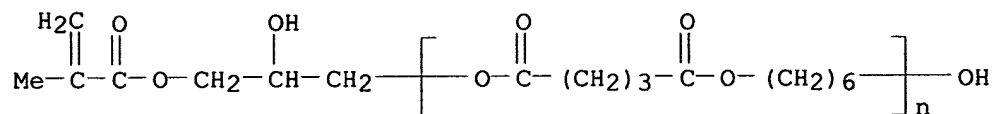
CN 2-Propenoic acid, 2-methyl-, phenyl ester, polymer with ethyl 2-propenoate
 and .alpha.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-.omega.-
 hydroxypoly[oxy(1,5-dioxo-1,5-pentanediyl)oxy-1,6-hexanediyl], graft (9CI)
 (CA INDEX NAME)

CM 1

CRN 135254-64-7

CMF (C11 H18 O4)_n C7 H12 O4

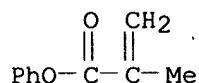
CCI PMS



CM 2

CRN 2177-70-0

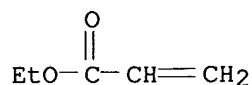
CMF C10 H10 O2



CM 3

CRN 140-88-5

CMF C5 H8 O2



RN 193751-96-1 HCAPLUS

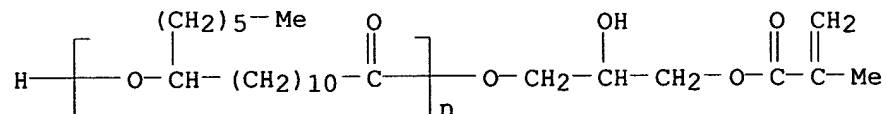
CN 2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with .alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propoxy]poly[oxy(1-hexyl-12-oxo-1,12-dodecanediyl)], graft (9CI) (CA INDEX NAME)

CM 1

CRN 101321-55-5

CMF (C18 H34 O2)_n C7 H12 O4

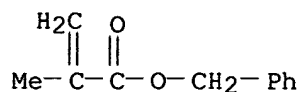
CCI PMS



CM 2

CRN 2495-37-6

CMF C11 H12 O2



RN 193751-97-2 HCAPLUS

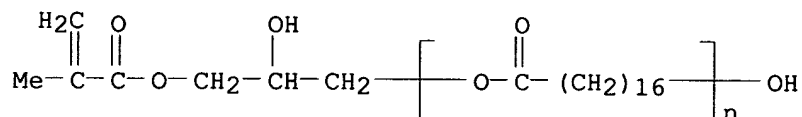
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with
 .alpha.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-.omega.-
 hydroxypoly[oxy(1-oxo-1,17-heptadecanediyl)], graft (9CI) (CA INDEX NAME)

CM 1

CRN 135377-47-8

CMF (C17 H32 O2)_n C7 H12 O4

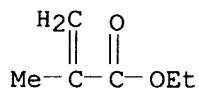
CCI PMS



CM 2

CRN 97-63-2

CMF C6 H10 O2



RN 193751-98-3 HCAPLUS

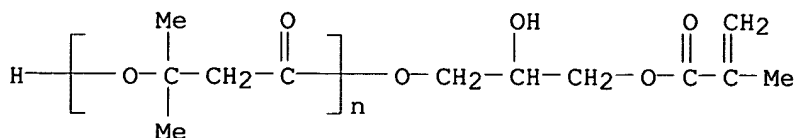
CN 2-Propenoic acid, 2-methyl-, propyl ester, polymer with
 .alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propoxy]poly[oxy(1,1-dimethyl-3-oxo-1,3-propanediyl)], graft
 (9CI) (CA INDEX NAME)

CM 1

CRN 135349-64-3

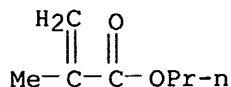
CMF (C5 H8 O2)_n C7 H12 O4

CCI PMS



CM 2

CRN 2210-28-8
CMF C7 H12 O2

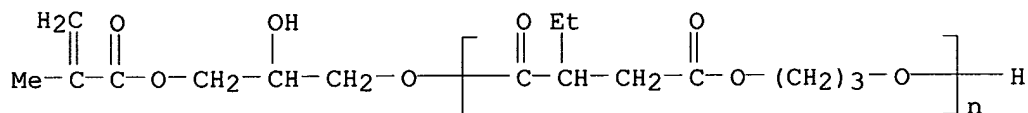


RN 193751-99-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with
.alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
propenyl)oxy]propoxy]poly[oxy-1,3-propanediyl]oxy(3-ethyl-1,4-dioxo-1,4-
butanediyl)] and 2-propenenitrile, graft (9CI) (CA INDEX NAME)

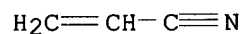
CM 1

CRN 135349-66-5
CMF (C9 H14 O4)_n C7 H12 O4
CCI PMS



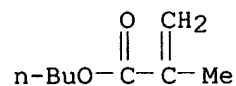
CM 2

CRN 107-13-1
CMF C3 H3 N



CM 3

CRN 97-88-1
CMF C8 H14 O2



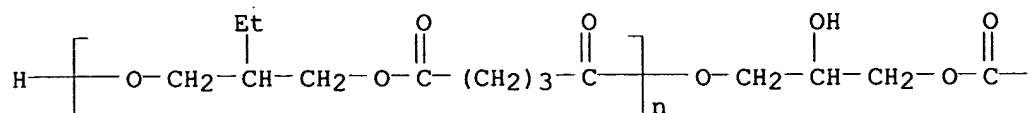
RN 193752-00-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-cyanoethyl ester, polymer with
.alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
propenyl)oxy]propoxy]poly[oxy(2-ethyl-1,3-propanediyl)oxy(1,5-dioxo-1,5-
pentanediyl)] and 2-methylphenyl 2-methyl-2-propenoate, graft (9CI) (CA
INDEX NAME)

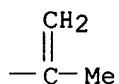
CM 1

CRN 135349-68-7
 CMF (C10 H16 O4)n C7 H12 O4
 CCI PMS

PAGE 1-A

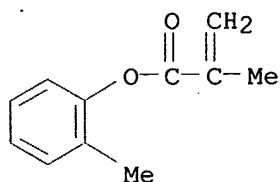


PAGE 1-B



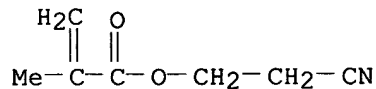
CM 2

CRN 74937-80-7
 CMF C11 H12 O2



CM 3

CRN 4513-53-5
 CMF C7 H9 N O2

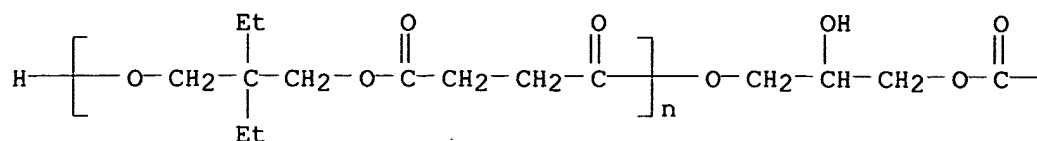


RN 193752-01-1 HCAPLUS
 CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with
 .alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propoxy]poly[oxy(2,2-diethyl-1,3-propanediyl)oxy(1,4-dioxo-
 1,4-butanediyl)], graft (9CI) (CA INDEX NAME)

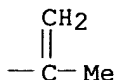
CM 1

CRN 135349-70-1
 CMF (C11 H18 O4)n C7 H12 O4
 CCI PMS

PAGE 1-A



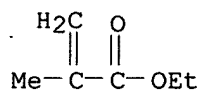
PAGE 1-B



CM 2

CRN 97-63-2

CMF C6 H10 O2



RN 193752-02-2 HCAPLUS

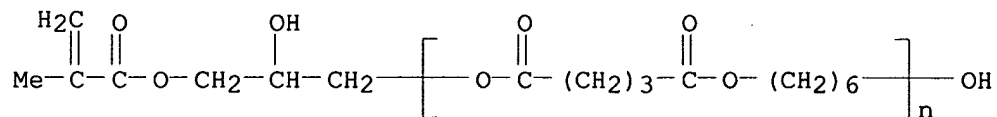
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with
 .alpha.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-.omega.-
 hydroxypoly[oxy(1,5-dioxo-1,5-pentanediyloxy-1,6-hexanediyloxy)] and
 2-propenamide, graft (9CI) (CA INDEX NAME)

CM 1

CRN 135254-64-7

CMF (C11 H18 O4)_n C7 H12 O4

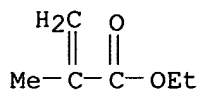
CCI PMS



CM 2

CRN 97-63-2

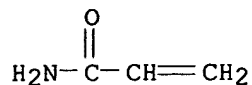
CMF C6 H10 O2



CM 3

CRN 79-06-1

CMF C3 H5 N O



RN 193752-03-3 HCAPLUS

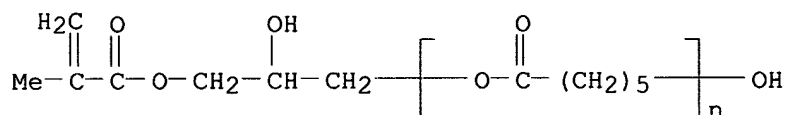
CN 2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with
 .alpha.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-.omega.-
 hydroxypoly[oxy(1-oxo-1,6-hexanediyl)], graft (9CI) (CA INDEX NAME)

CM 1

CRN 135349-72-3

CMF (C6 H10 O2)n C7 H12 O4

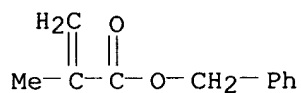
CCI PMS



CM 2

CRN 2495-37-6

CMF C11 H12 O2



RN 193752-04-4 HCAPLUS

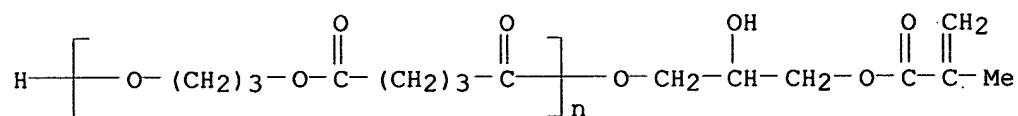
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with
 .alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propoxy]poly[oxy-1,3-propanediyl]oxy(1,5-dioxo-1,5-
 pentanediyl)] and methyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX
 NAME)

CM 1

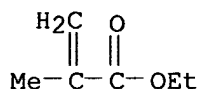
CRN 135349-74-5

CMF (C8 H12 O4)n C7 H12 O4

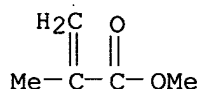
CCI PMS



CM 2

CRN 97-63-2
CMF C6 H10 O2

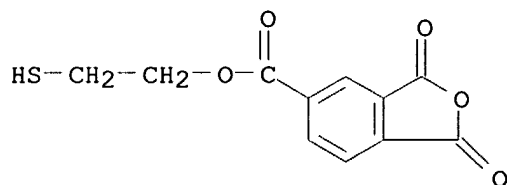
CM 3

CRN 80-62-6
CMF C5 H8 O2

RN 193752-23-7 HCAPLUS

CN 5-Isobenzofurancarboxylic acid, 1,3-dihydro-1,3-dioxo-, 2-mercaptoethyl ester, telomer with butyl 2-methyl-2-propenoate, .alpha.-hydro-.omega.-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]poly[oxy(1-methyl-4-oxo-1,4-butanediyl)] and 2-propenamide, graft (9CI) (CA INDEX NAME)

CM 1

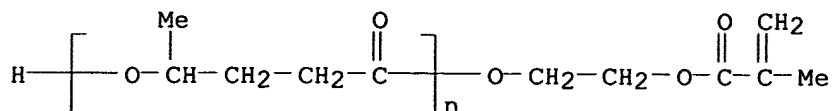
CRN 126969-35-5
CMF C11 H8 O5 S

CM 2

CRN 193752-22-6
CMF (C8 H14 O2 . (C5 H8 O2)n C6 H10 O3 . C3 H5 N O)x
CCI PMS

CM 3

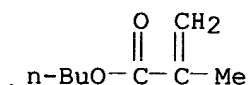
CRN 135499-05-7
CMF (C5 H8 O2)n C6 H10 O3
CCI PMS



CM 4

CRN 97-88-1

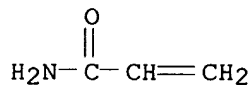
CMF C8 H14 O2



CM 5

CRN 79-06-1

CMF C3 H5 N O



RN 193752-32-8 HCAPLUS

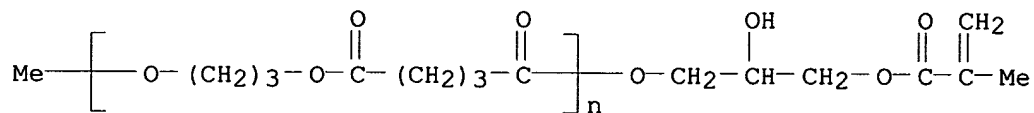
CN 2-Propenoic acid, 2-methyl-, 2-chlorophenyl ester, polymer with .alpha.-methyl-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propoxy]poly[oxy-1,3-propanediyl]oxy(1,5-dioxo-1,5-pentanediy)]], graft (9CI) (CA INDEX NAME)

CM 1

CRN 135349-90-5

CMF (C8 H12 O4)_n C8 H14 O4

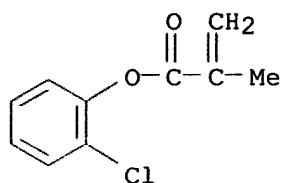
CCI PMS



CM 2

CRN 18967-23-2

CMF C10 H9 Cl O2



RN 193752-33-9 HCAPLUS

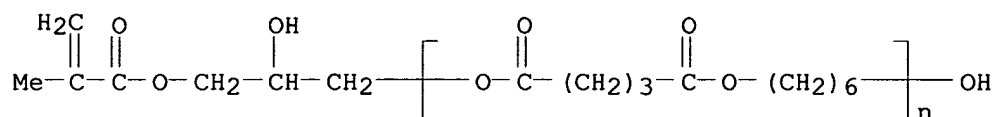
CN 2-Propenoic acid, 2-methyl-, 2-bromophenyl ester, polymer with
.alpha.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-.omega.-
hydroxypoly[oxy(1,5-dioxo-1,5-pentanediyloxy-1,6-hexanediyl)], graft (9CI)
(CA INDEX NAME)

CM 1

CRN 135254-64-7

$$\text{CMF} \quad (\text{C}_{11} \text{ H}_{18} \text{ O}_4)_n \text{ C}_7 \text{ H}_{12} \text{ O}_4$$

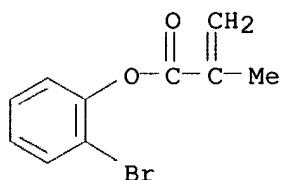
CCI PMS



CM 2

CRN 126969-72-0

CMF C10 H9 Br O2



RN 193752-34-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, propyl ester, polymer with ethenylbenzene and .alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propoxy]poly[oxy-1,6-hexanediyl]oxy(1-oxo-1,2-ethanediyl)-1,4-phenylene(2-oxo-1,2-ethanediyl)], graft (9CI) (CA INDEX NAME)

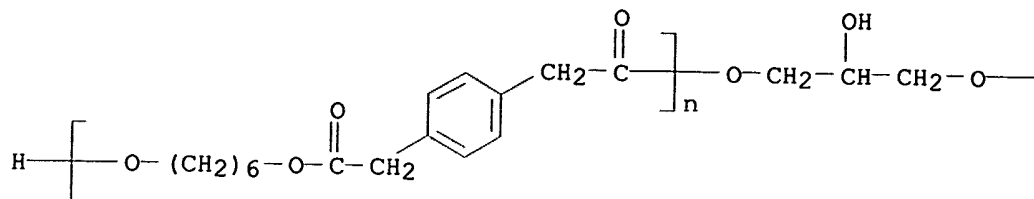
CM 1

CRN 135349-93-8

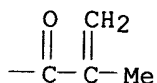
$$\text{CMF} \quad (\text{C}_{16} \text{H}_{20} \text{O}_4)_n \text{C}_7 \text{H}_{12} \text{O}_4$$

CCI	PMS
-----	-----

PAGE 1-A



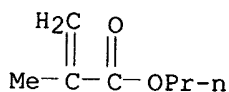
PAGE 1-B



CM 2

CRN 2210-28-8

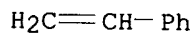
CMF C7 H12 O2



CM 3

CRN 100-42-5

CMF C8 H8



RN 193752-35-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with
 .alpha.-hydro-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propoxy]poly[oxy(2-methyl-1,3-propanediyl)oxy(1,5-dioxo-1,5-
 pentanediyl)] and methyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX
 NAME)

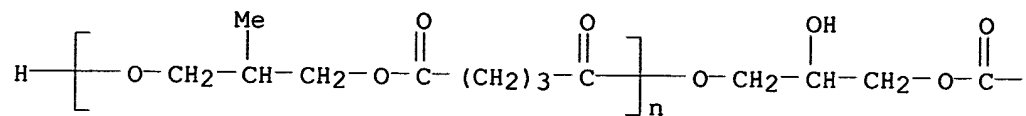
CM 1

CRN 135349-95-0

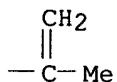
CMF (C9 H14 O4)n C7 H12 O4

CCI PMS

PAGE 1-A



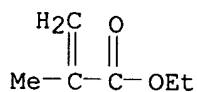
PAGE 1-B



CM 2

CRN 97-63-2

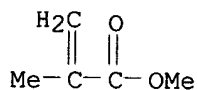
CMF C6 H10 O2



CM 3

CRN 80-62-6

CMF C5 H8 O2



RN 193752-36-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, phenylmethyl ester, polymer with
 .alpha.-acetyl-.omega.-[2-hydroxy-3-[(2-methyl-1-oxo-2-
 propenyl)oxy]propoxy]poly[oxy-1,2-ethanediyl]oxy(1,4-dioxo-2-butene-1,4-
 diyl)], graft (9CI) (CA INDEX NAME)

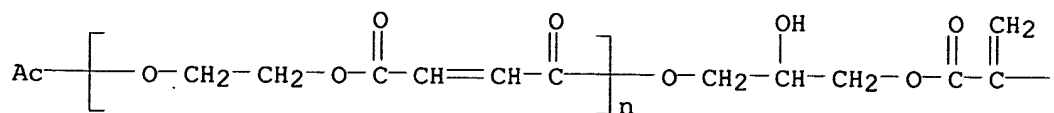
CM 1

CRN 135349-97-2

CMF (C6 H6 O4)_n C9 H14 O5

CCI PMS

PAGE 1-A

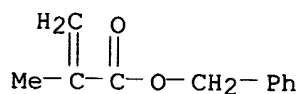


PAGE 1-B

— Me

CM 2

CRN 2495-37-6
 CMF C11 H12 O2



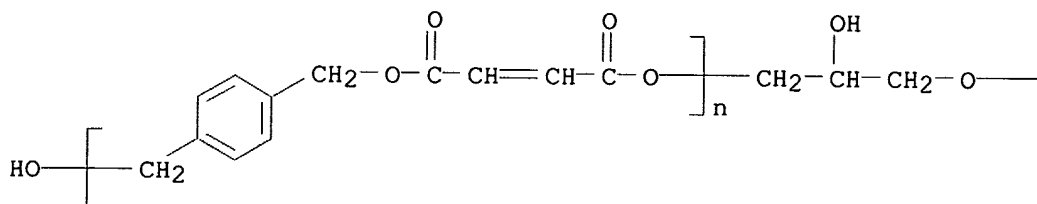
RN 193752-38-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with ethenylbenzene and
 .alpha.-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propyl]-.omega.-
 hydroxypoly[oxy(1,4-dioxo-2-butene-1,4-diyl)oxymethylene-1,4-
 phenylenemethylene], graft (9CI) (CA INDEX NAME)

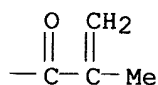
CM 1

CRN 135327-23-0
 CMF (C12 H10 O4)_n C7 H12 O4
 CCI PMS

PAGE 1-A

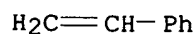


PAGE 1-B



CM 2

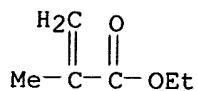
CRN 100-42-5
 CMF C8 H8



CM 3

CRN 97-63-2

CMF C6 H10 O2



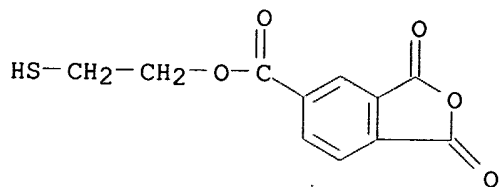
RN 193752-61-3 HCAPLUS

CN 5-Isobenzofurancarboxylic acid, 1,3-dihydro-1,3-dioxo-, 2-mercaptoethyl ester, telomer with butyl 2-methyl-2-propenoate, 4-hydroxypentanoic acid and 2-propenamide, graft (9CI) (CA INDEX NAME)

CM 1

CRN 126969-35-5

CMF C11 H8 O5 S



CM 2

CRN 135868-94-9

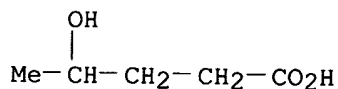
CMF (C8 H14 O2 . C5 H10 O3 . C3 H5 N O)x

CCI PMS

CM 3

CRN 13532-37-1

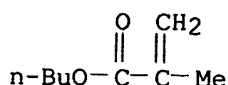
CMF C5 H10 O3



CM 4

CRN 97-88-1

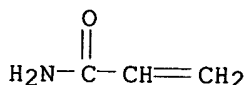
CMF C8 H14 O2



CM 5

CRN 79-06-1

CMF C3 H5 N O



L23 ANSWER 43 OF 55 HCAPLUS COPYRIGHT 2002 ACS
 AN 1997:478728 HCAPLUS
 DN 127:115298
 TI Radiation-sensitive **composition** useful in production of color filter
 IN Suzuki, Nobuo; Kato, Eiichi
 PA Fuji Photo Film Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 32 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM G03F007-033
 ICS C08F299-04; G02B005-20; G03F007-004; C08L033-04
 CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
 Section cross-reference(s): 38
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09171252	A2	19970630	JP 1995-331854	19951220

AB The title **compn.** contains (a) a binder resin of a graft copolymer with wt. av. mol. wt. (Mw) 5 .times. 104-1 .times. 106 contg., as a polymer component, .gtoreq.1 macromonomer with Mw 1 .times. 103-2 .times. 104 CHf1:Cf2[XYO(WO)nR61] [f1, f2 = H, halo, CN, hydrocarbon, CO2R1 which may link via hydrocarbons; R1 = H, (substituted) hydrocarbon; X = CO2, OCO, (CH2)lOCO, (CH2)lCO2 (l = 1-3), O, SO2, CO, CONQ1, SO2NQ1 (Q1 = H, hydrocarbon), CONHCO2, CONHCONH, C6H4; Y = linking group; (WO) indicates a repeating unit; n = 1-3, when n .gtoreq. 2, W is different from the W in the adjacent unit (WO); W = CHr1CHr2 (r1, r2 = H, alkyl), (CH2)4; R61 = H, hydrocarbon, COR62 (R62 = hydrocarbon)], (b) a radiation-sensitive compd., and (c) a pigment. The pigment is dispersed well as fine particles in the **compn.**, and the **compn.** shows good coatability and provides high quality color filters. Thus, a radiation-sensitive **compn.** was prep'd. by using graft copolymer HOOC(CH2)2CMe(CN)[{CH2CMe(CO2CH2Ph)}80{CH2CMe(CO2CH2CH2OH)}20], dipentaerythritol pentaacrylate, 4-[o-bromo-p-N,N-di(ethoxycarbonyl)aminophenyl]-2,6-di(trichloromethyl)-s-triazine, 7-[(4-chloro-6-(diethylamino)-s-triazin-2-yl)amino]-3-phenylcoumarin, C.I. Pigment Red 155, and C.I. Pigment Yellow 83.
 ST color filter radiation sensitive resist; graft copolymer radiation sensitive resist; pigment radiation sensitive resist

- IT Optical filters
(radiation-sensitive resist **compn.** contg. graft polymer and pigment for color filter)
- IT Resists
(radiation-sensitive; radiation-sensitive resist **compn.** contg. graft polymer and pigment)
- IT 60-24-2DP, 2-Mercaptoethanol, reaction products with acrylic graft copolymer 68-11-1DP, Thioglycolic acid, reaction products with acrylic graft copolymer 70-49-5DP, Mercaptosuccinic acid, reaction products with acrylic graft copolymer 107-96-0DP, 3-Mercaptopropanoic acid, reaction products with acrylic graft copolymer 147-93-3DP, o-Mercaptobenzoic acid, reaction products with acrylic graft copolymer 2638-94-0DP, reaction products with acrylic graft copolymer 4693-47-4DP, reaction products with acrylic graft copolymer 19706-80-0DP, 2,2'-Azobis(2-cyanopropanol), reaction products with acrylic graft copolymer 55428-59-6DP, reaction products with acrylic graft copolymer 61551-69-7DP, reaction products with acrylic graft copolymer 104222-30-2DP, 2,2'-Azobis[2-methyl-N-(1,1-bis(hydroxymethyl)ethyl)propionamide, reaction products with acrylic graft copolymer 104222-32-4DP, 2,2'-Azobis[2-methyl-N-(1,1-bis(hydroxymethyl)-2-hydroxyethyl)propionamide, reaction products with acrylic graft copolymer 118585-12-9DP, 2,2'-Azobis[2-(1-(2-hydroxyethyl)-2-imidazolin-2-yl)propane, reaction products with acrylic graft copolymer 118585-14-1DP, 2,2'-Azobis[2-(5-hydroxy-3,4,5,6-tetrahydropyrimidin-2-yl)propane, reaction products with acrylic graft copolymer 126969-33-3DP, reaction products with acrylic graft copolymer 138059-37-7DP, reaction products with acrylic graft copolymer **192386-11-1DP**, Benzyl methacrylate-2-hydroxyethyl methacrylate graft copolymer, reaction products with azobis(cyanovaleric acid) 192386-12-2DP, 2-(2-Hydroxyethoxy)ethyl methacrylate-phenyl methacrylate graft copolymer, reaction products with azobis(cyanovaleric acid) 192386-15-5DP, reaction products with azobis(cyanovaleric acid) 192386-18-8DP, reaction products with azobis(cyanovaleric acid) 192386-21-3DP, reaction products with azobis(cyanovaleric acid) 192386-24-6DP, reaction products with azobis(cyanovaleric acid) 192386-27-9DP, reaction products with azobis(cyanovaleric acid) 192386-29-1DP, reaction products with thioglycolic acid 192386-32-6DP, reaction products with mercapto compd. **192386-35-9DP**, reaction products with mercapto compd. 192386-37-1DP, reaction products with mercapto compd. 192386-39-3DP, reaction products with mercapto compd. 192386-41-7DP, reaction products with mercapto compd. 192386-43-9DP, reaction products with mercapto compd. **192386-46-2DP**, reaction products with mercapto compd. 192386-49-5P 192386-53-1DP, reaction products with acrylic graft copolymer
- RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(radiation-sensitive resist **compn.** contg. graft polymer and pigment for color filter)
- IT 1707-68-2, 2-(2-Chlorophenyl)-4,5-diphenylimidazolyl dimer 4986-89-4 5516-22-3 29570-58-9, Dipentaerythritol hexaacrylate 60506-81-2, Dipentaerythritol pentaacrylate 115168-59-7 192386-54-2
- RL: TEM (Technical or engineered material use); USES (Uses)
(radiation-sensitive resist **compn.** contg. graft polymer and pigment for color filter)
- IT **192386-11-1DP**, Benzyl methacrylate-2-hydroxyethyl methacrylate graft copolymer, reaction products with azobis(cyanovaleric acid) **192386-35-9DP**, reaction products with mercapto compd. **192386-46-2DP**, reaction products with mercapto compd.
- RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)

(radiation-sensitive resist compn. contg. graft polymer and pigment for color filter)

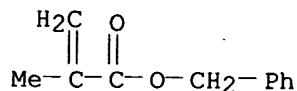
RN 192386-11-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with phenylmethyl 2-methyl-2-propenoate, graft (9CI) (CA INDEX NAME)

CM 1

CRN 2495-37-6

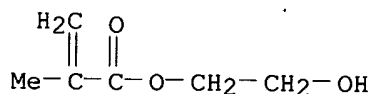
CMF C11 H12 O2



CM 2

CRN 868-77-9

CMF C6 H10 O3



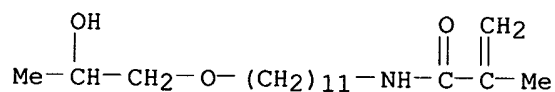
RN 192386-35-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with N-[11-(2-hydroxypropoxy)undecyl]-2-methyl-2-propenamide, graft (9CI) (CA INDEX NAME)

CM 1

CRN 192386-34-8

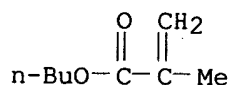
CMF C18 H35 N O3



CM 2

CRN 97-88-1

CMF C8 H14 O2



RN 192386-46-2 HCAPLUS

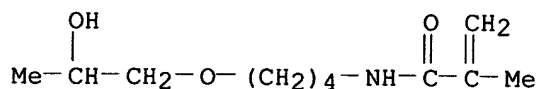
CN 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with N-[4-(2-hydroxypropoxy)butyl]-2-methyl-2-propenamide, graft (9CI) (CA

INDEX NAME)

CM 1

CRN 192386-45-1

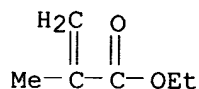
CMF C11 H21 N O3



CM 2

CRN 97-63-2

CMF C6 H10 O2



L23 ANSWER 44 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1997:471316 HCAPLUS

DN 127:163265

TI Aqueous ink-jet inks containing polyampholytes as pigment dispersants

IN Ma, Sheau-hwa; Hertler, Walter Raymond

PA E. I. Du Pont De Nemours and Company, USA

SO U.S., 7 pp.

CODEN: USXXAM

DT Patent

LA English

IC ICM C03C017-00

NCL 523160000

CC 42-12 (Coatings, Inks, and Related Products)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5648405	A	19970715	US 1992-998215	19921230
AB	Aq. ink jet ink compns. comprising an aq. carrier medium, a colorant, such as a dye or a pigment, and a polyampholyte contg. at least one carboxylic acid group and at least one amine group (no.-av. mol. wt. <20,000) have improved pigment dispersion stability and flexibility in manufg. A typical polyampholyte was manufd. by polymg. 2-dimethylaminoethyl methacrylate 35.1, 2-phenylethyl methacrylate 49.2, and trimethylsilyl methacrylate 35.5 g in the presence of 1-methoxy-1-trimethylsiloxy-2-methyl-1-propene and tetrabutylammonium m-chlorobenzoate at 70.degree. in THF, and refluxing the reaction mixt. 8 h in the presence of MeOH, water, and dichloroacetic acid.				
ST	water thinned jet printing ink polyampholyte; pigment dispersant polyampholyte; trimethylsilyl methacrylate copolymer hydrolyzed polyampholyte ink; phenylethyl methacrylate copolymer polyampholyte ink; aminoethyl methacrylate copolymer polyampholyte ink; carboxylic acid amino polymer polyampholyte ink				
IT	Carbon black, uses				
	RL: MOA (Modifier or additive use); TEM (Technical or engineered material				

use); USES (Uses)
(FW 18; aq. ink-jet inks contg. polyampholytes as pigment dispersants)

IT Dispersing agents
Pigments, nonbiological
(aq. ink-jet inks contg. polyampholytes as pigment dispersants)

IT Inks
(jet-printing, water-thinned; aq. ink-jet inks contg. polyampholytes as pigment dispersants)

IT Amphoteric materials
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polymeric; aq. ink-jet inks contg. polyampholytes as pigment dispersants)

IT 147-14-8
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(Endurophthal BT 617; aq. ink-jet inks contg. polyampholytes as pigment dispersants)

IT 100-44-7DP, Benzyl chloride, reaction products with hydrolyzed benzyl methacrylate-dimethylaminoethyl methacrylate-trimethylsilyl methacrylate copolymer 152110-69-5DP, hydrolyzed 193485-22-2DP, hydrolyzed
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(aq. ink-jet inks contg. polyampholytes as pigment dispersants)

IT 193766-57-3, Monastral Magenta RT 143D
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(aq. ink-jet inks contg. polyampholytes as pigment dispersants)

IT 152110-69-5DP, hydrolyzed 193485-22-2DP, hydrolyzed
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(aq. ink-jet inks contg. polyampholytes as pigment dispersants)

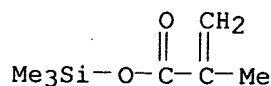
RN 152110-69-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with 2-phenylethyl 2-methyl-2-propenoate and trimethylsilyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

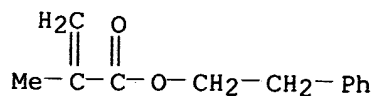
CRN 13688-56-7

CMF C7 H14 O2 Si



CM 2

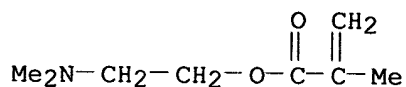
CRN 3683-12-3
CMF C12 H14 O2



CM 3

CRN 2867-47-2

CMF C8 H15 N O2



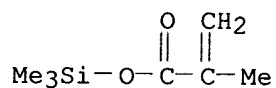
RN 193485-22-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-(dimethylamino)ethyl ester, polymer with phenylmethyl 2-methyl-2-propenoate and trimethylsilyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 13688-56-7

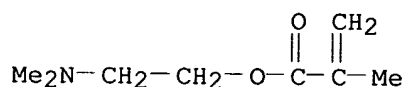
CMF C7 H14 O2 Si



CM 2

CRN 2867-47-2

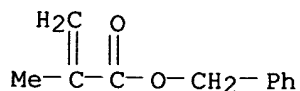
CMF C8 H15 N O2



CM 3

CRN 2495-37-6

CMF C11 H12 O2

L23 ANSWER 45 OF 55 HCAPLUS COPYRIGHT 2002 ACS
AN 1997:374348 HCAPLUS

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

DN 127:18577
 TI Photocurable **compositions** with excellent pigment dispersion and heat stability
 IN Mori, Hirofumi; Kamei, Yoichiro
 PA Sekisui Fine Chemical Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C08L033-08
 ICS C08K009-04; C08L033-10; C09D005-00; C09D133-08; C09D133-10; C08L033-08; C08L061-22
 CC 37-6 (Plastics Manufacture and Processing)
 Section cross-reference(s): 38, 42, 74
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09100384	A2	19970415	JP 1995-258763	19951005
AB	Title compns. , useful as coatings, adhesives, sealants, resists, etc., comprise pigments coated by copolymers composed of vinyl acetate and CH ₂ :CR ₁ CO ₂ CH ₂ CHR ₂ OH (R ₁ , R ₂ = H, Me), water-sol. acrylic resins, and water-sol. diazo resins. Thus, 100 parts blue pigment dispersion composed of cyanine blue 95, dioxazine violet 5, polyoxyethylene monooleyl ether 20, and H ₂ O 380 parts was treated with vinyl acetate 1, 2-hydroxypropyl methacrylate 2.3, and benzoyl peroxide 0.03 part at 80.degree. for 8 h to give a reaction mixt., 50 parts of which was blended with 4.5 part 10% diazo resin soln. and 50 parts acrylic resin soln. (prepd. by polymn. of 2-hydroxyethyl methacrylate 80, methacrylamide 10, dimethylacrylamide 9, and acrylic acid 1 part in aq. AcOH) to give a photosensitive soln. Then, the soln. was spin-coated on a glass paste, irradiated by UV, and developed by a soln. contg. anionic surfactant and malic acid to give photomask.				
ST	photocurable compn pigment dispersion stability; acrylic resin photocurable compn pigment; diazo resin photocurable compn pigment; polymer coated pigment photocurable compn ; resist photocurable compn pigment coating				
IT	Photoresists Pigments, nonbiological (photocurable compns. with excellent pigment dispersion and heat stability)				
IT	Adhesives Coating materials Sealing compositions (photocurable; photocurable compns. with excellent pigment dispersion and heat stability)				
IT	Diazo compounds RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (resins; photocurable compns. with excellent pigment dispersion and heat stability)				
IT	153085-95-1P, Acrylic acid-dimethylacrylamide-2-hydroxyethyl methacrylate-methacrylamide copolymer RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (photocurable compns. with excellent pigment dispersion and heat stability)				
IT	523-42-2, Cyanine blue 215247-95-3, Dioxazine violet RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)				

(photocurable compns. with excellent pigment dispersion and heat stability)

IT 54392-91-5P, 2-Hydroxypropyl methacrylate-vinyl acetate copolymer
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(pigment coatings; photocurable compns. with excellent pigment dispersion and heat stability)

IT 153085-95-1P, Acrylic acid-dimethylacrylamide-2-hydroxyethyl methacrylate-methacrylamide copolymer
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(photocurable compns. with excellent pigment dispersion and heat stability)

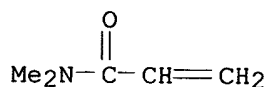
RN 153085-95-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with N,N-dimethyl-2-propenamide, 2-methyl-2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)

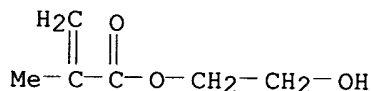
CM 1

CRN 2680-03-7

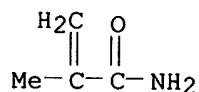
CMF C5 H9 N O



CM 2

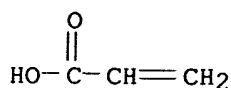
CRN 868-77-9
CMF C6 H10 O3

CM 3

CRN 79-39-0
CMF C4 H7 N O

CM 4

CRN 79-10-7
CMF C3 H4 O2

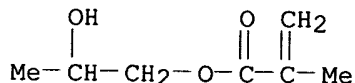


IT 54392-91-5P, 2-Hydroxypropyl methacrylate-vinyl acetate copolymer
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(pigment coatings; photocurable compns. with excellent pigment dispersion and heat stability)
RN 54392-91-5 HCAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-hydroxypropyl ester, polymer with ethenyl acetate (9CI) (CA INDEX NAME)

CM 1

CRN 923-26-2

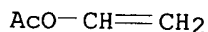
CMF C7 H12 O3



CM 2

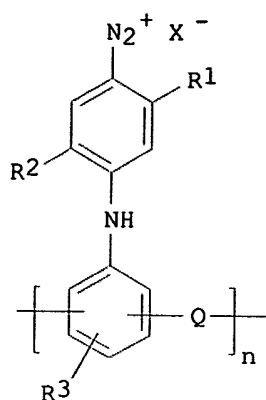
CRN 108-05-4

CMF C4 H6 O2

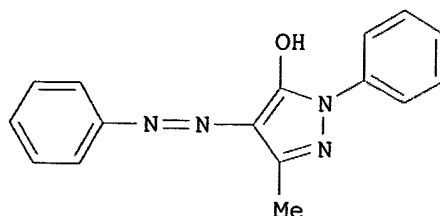


L23 ANSWER 46 OF 55 HCAPLUS COPYRIGHT 2002 ACS
AN 1996:545605 HCAPLUS
DN 125:181417
TI Photosensitive composition for lithographic printing plate
IN Nakatsuka, Masao
PA Okamoto Kagaku Kogyo Kk, Japan
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM G03F007-021
ICS G03F007-00; G03F007-004
CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08160609	A2	19960621	JP 1994-299161	19941202
GI					



I

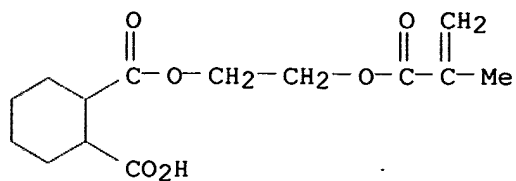


II

- AB The **compn.** contains a diazo polymer comprising I (Q = CHR4 or CHR4ACHR4; X = org. anion; R1-3 = H, alkyl, alkoxy, OH; R4 = H, alkyl, Ph; n .gtoreq. 1; A = CO2H- and/or OH-contg. arom. group), an org. polymer, a blue pigment, and a pyrazole deriv. II. The **compn.** showed good storage stability.
- ST photosensitive diazo polymer lithog printing; yellow pigment
- IT photosensitive lithog printing
- IT Lithographic plates
(photosensitive **compn.** contg. diazo polymer and yellow pigment for lithog. printing plate)
- IT 4314-14-1, Oil Yellow 3G
RL: MOA (Modifier or additive use); USES (Uses)
(photosensitive **compn.** contg. diazo polymer and yellow pigment for lithog. printing plate)
- IT 112028-67-8P 125785-09-3DP, p-Diazodiphenylamine sulfate-formaldehyde-p-hydroxybenzoic acid copolymer, dodecylbenzenesulfonate salt
154925-71-0P 162223-15-6P, Acrylonitrile-2-hydroxyethyl methacrylate-2-hydroxy-3-phenoxypropyl methacrylate-methacrylic acid-methyl methacrylate copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(photosensitive **compn.** contg. diazo polymer and yellow pigment for lithog. printing plate)
- IT 2390-60-5, Victoria Pure Blue BOH 150428-77-6, Oil Blue 613
RL: TEM (Technical or engineered material use); USES (Uses)
(photosensitive **compn.** contg. diazo polymer and yellow pigment for lithog. printing plate)
- IT 154925-71-0P 162223-15-6P, Acrylonitrile-2-hydroxyethyl methacrylate-2-hydroxy-3-phenoxypropyl methacrylate-methacrylic acid-methyl methacrylate copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(photosensitive **compn.** contg. diazo polymer and yellow pigment for lithog. printing plate)
- RN 154925-71-0 HCAPLUS
- CN 1,2-Cyclohexanedicarboxylic acid, mono[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with 2-hydroxyethyl 2-methyl-2-propenoate, 4-(1-methylethenyl)phenol, methyl 2-methyl-2-propenoate and 2-propenenitrile (9CI) (CA INDEX NAME)

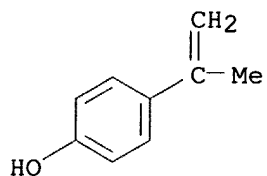
CM 1

CRN 51252-88-1
CMF C14 H20 O6



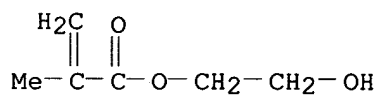
CM 2

CRN 4286-23-1
CMF C9 H10 O



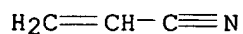
CM 3

CRN 868-77-9
CMF C6 H10 O3



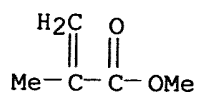
CM 4

CRN 107-13-1
CMF C3 H3 N



CM 5

CRN 80-62-6
CMF C5 H8 O2



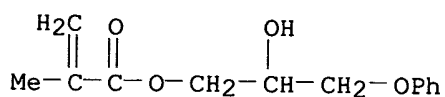
RN 162223-15-6 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with 2-hydroxyethyl
2-methyl-2-propenoate, 2-hydroxy-3-phenoxypropyl 2-methyl-2-propenoate,
methyl 2-methyl-2-propenoate and 2-propenenitrile (9CI) (CA INDEX NAME)

CM 1

CRN 16926-87-7

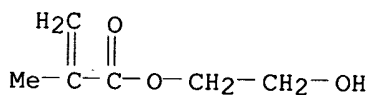
CMF C13 H16 O4



CM 2

CRN 868-77-9

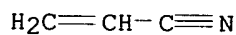
CMF C6 H10 O3



CM 3

CRN 107-13-1

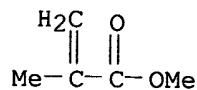
CMF C3 H3 N



CM 4

CRN 80-62-6

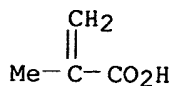
CMF C5 H8 O2



CM 5

CRN 79-41-4

CMF C4 H6 O2



L23 ANSWER 47 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1996:462241 HCAPLUS

DN 125:143633

TI A polylactone having amino groups, its preparation, and coating and printing ink **compositions** containing it

IN Matsui, Hideki

PA Daicel Chemical Industries, Ltd., Japan

SO Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C08G063-91

ICS C08G063-685; C09D167-04; C09D011-10

CC 35-8 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 42

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 713894	A2	19960529	EP 1995-402635	19951122
	EP 713894	A3	19960731		
	R: DE, ES, GB				
	JP 08143651	A2	19960604	JP 1994-311302	19941122
	JP 08143813	A2	19960604	JP 1994-311303	19941122
	US 6194539	B1	20010227	US 1995-560110	19951117
PRAI	JP 1994-311302	A	19941122		
	JP 1994-311303	A	19941122		

AB The polylactone is excellent in color hue, and can be employed in fields such as coatings, inks, UV-curable or electron beam-curable resins, etc., in which the color hue becomes a serious problem. It is prepd. by Michael addn. of a (meth)acrylate group-terminated lactone-derived polyester with an amine or polyamine. Thus, a mixt. of 2-hydroxyethyl acrylate 232, .epsilon.-caprolactone 684, SnCl₂ 0.009, and methylhydroquinone 1 part was polymd. at 100.degree., and the product was cooled to 50.degree. and treated with 86 parts piperazine to give a product with OH value 112 mg KOH/g and APHA value 80.

ST amino contg polylactone; pigment dispersant amino polylactone; coating **compn** amino polylactone; printing ink amino polylactone; Michael addn piperazine polylactone acrylate

IT Coating materials

Dispersing agents

(prepn. of amino group-contg. polylactones and coatings and inks contg. them as pigment dispersants)

IT Polyesters, preparation

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(amino-contg., prepn. of amino group-contg. polylactones and coatings and inks contg. them as pigment dispersants)

IT Polyesters, preparation

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(polyamine-, graft; prepn. of amino group-contg. polylactones and

coatings and inks contg. them as pigment dispersants)

IT Polyamines
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(polyester-, graft; prepn. of amino group-contg. polylactones and coatings and inks contg. them as pigment dispersants)

IT Inks
(printing, prepn. of amino group-contg. polylactones and coatings and inks contg. them as pigment dispersants)

IT 164218-30-8P, Aziridine-.epsilon.-caprolactone graft copolymer
179167-61-4P, Aziridine-.epsilon.-caprolactone-4-methyl-.epsilon.-caprolactone graft copolymer 179463-07-1P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(comblake; prepn. of amino group-contg. polylactones and coatings and inks contg. them as pigment dispersants)

IT 109-07-9DP, 2-Methylpiperazine, reaction products with acrylate-terminated polycaprolactone 110-70-3DP, N,N'-Dimethylethylenediamine, reaction products with acrylate-terminated polycaprolactone 110-85-0DP, Piperazine, reaction products with acrylate-terminated polycaprolactone 7209-38-3DP, 1,4-Bis(3-aminopropyl)piperazine, reaction products with acrylate-terminated polycaprolactone 110489-05-9DP, reaction products with diamines 179167-56-7P 179167-57-8P 179167-58-9P 179167-59-0P 179167-60-3P 179463-06-0DP, reaction products with piperazine
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(prepn. of amino group-contg. polylactones and coatings and inks contg. them as pigment dispersants)

IT 110489-05-9DP, reaction products with diamines
179463-06-0DP, reaction products with piperazine
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(prepn. of amino group-contg. polylactones and coatings and inks contg. them as pigment dispersants)

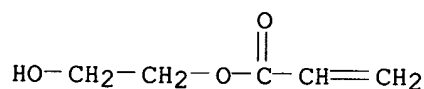
RN 110489-05-9 HCAPLUS

CN 2-Oxepanone, homopolymer, 2-[(1-oxo-2-propenyl)oxy]ethyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 818-61-1

CMF C5 H8 O3



CM 2

CRN 24980-41-4

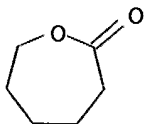
CMF (C6 H10 O2)x

CCI PMS

CM 3

CRN 502-44-3

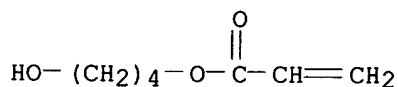
CMF C6 H10 O2



RN 179463-06-0 HCAPLUS
CN 2-Oxepanone, homopolymer, 4-[(1-oxo-2-propenyl)oxy]butyl ester (9CI) (CA INDEX NAME)

CM 1

CRN 2478-10-6
CMF C7 H12 O3

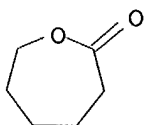


CM 2

CRN 24980-41-4
CMF (C6 H10 O2)x
CCI PMS

CM 3

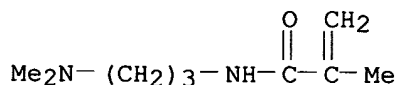
CRN 502-44-3
CMF C6 H10 O2



L23 ANSWER 48 OF 55 HCAPLUS COPYRIGHT 2002 ACS
AN 1996:262245 HCAPLUS
DN 124:328477
TI Colored resist **composition**
IN Nakamura, Kazuhiko
PA Sekisui Chemical Co Ltd, Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM G03F007-004
ICS G02B005-20; G03F007-027
CC 74-5 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

FAN.CNT 1

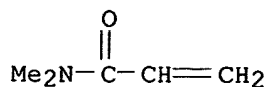
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 08036257	A2	19960206	JP 1994-169515	19940721
AB	The resist compn. contains a photosensitive polymer, .gtoreq.1 black pigment with sp. resistance .gtoreq.102.OMEGA.-cm, and .gtoreq.2 color pigments of brown, blue, violet, yellow, red, orange, and green and forms color resist film with sp. resistance .gtoreq.106.OMEGA.-cm after exposure. The colored resist compn. shows good insulating and light-shielding properties and is useful for color filters.				
ST	resist color filter resistance pigment				
IT	Resists (photo-, colored resist compn. contg. pigment with high resistance)				
IT	7727-43-7, Barium sulfate RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (body color pigment; colored resist compn. contg. pigment with high resistance)				
IT	147-14-8, Pigment Blue 15 6358-30-1, Pigment Violet 23 6358-85-6, Pigment Yellow 12 12227-89-3, Pigment Black 11 RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (colored resist compn. contg. pigment with high resistance)				
IT	159293-83-1P RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation) ; USES (Uses) (colored resist compn. contg. pigment with high resistance)				
IT	159293-83-1P RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation) ; USES (Uses) (colored resist compn. contg. pigment with high resistance)				
RN	159293-83-1 HCAPLUS				
CN	2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with N-[3-(dimethylamino)propyl]-2-methyl-2-propenamide, N,N-dimethyl-2-propenamide and 2-propenoic acid (9CI) (CA INDEX NAME)				
CM	1				
CRN	5205-93-6				
CMF	C9 H18 N2 O				



CM 2

CRN 2680-03-7

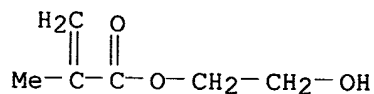
CMF C5 H9 N O



CM 3

CRN 868-77-9

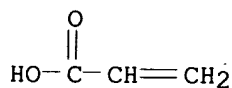
CMF C6 H10 O3



CM 4

CRN 79-10-7

CMF C3 H4 O2



L23 ANSWER 49 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1995:137142 HCAPLUS

DN 122:136192

TI Preparation of polymers for dispersing pigments in coating compositions

IN Yoshida, Michiro; Nakajima, Shunichi; Oosumi, Tatsuya; Komuda, Hitoshi

PA Sanyo Chemical Ind Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C08F220-18

CC 42-5 (Coatings, Inks, and Related Products)

Section cross-reference(s): 35

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 06211942	A2	19940802	JP 1993-24902	19930119
AB	The title polymers, having wt.-av. mol. wt. 5000-10,000, polydispersity .ltoreq.2.2, and good compatibility with coating resins, are prepd. by dropwise addn. of mixts. of C1-4 alkyl (meth)acrylates, C6-20 alkyl (meth)acrylates, and radical initiators to org. solvents (m. 75-150.degree.) at a temp. below the solvent m.p. in a pressurized (1-10 atm) reactor. A copolymer was prepd. from a mixt. of Me methacrylate 65, iso-Bu methacrylate 10, dodecyl methacrylate 18, 2-hydroxyethyl methacrylate 7, and methacrylic acid 1 part by using tert-butylperoxy isobutyrate as the initiator and a 30:70 AcOBu-xylene mixt. as the solvent. A compn. contg. the copolymer and an oil-modified alkyd resin gave a transparent coating.				

ST pigment dispersant vinyl copolymer coating; methacrylic acid copolymer dispersant pigment; hydroxyethyl methacrylate copolymer dispersant pigment; dodecyl methacrylate copolymer dispersant pigment; acrylic polymer dispersant pigment coating

IT Pigments
(dispersants; prepn. and use of acrylic polymers as)

IT Polymerization catalysts
(radical, for acrylic compds. in prepn. of pigment dispersants)

IT 80-43-3, Dicumyl peroxide 109-13-7 2372-21-6, tert-Butylperoxyisopropyl carbonate
RL: CAT (Catalyst use); USES (Uses)
(catalysts; for polymn. of acrylic resins as pigment dispersants)

IT 9004-70-0, Nitrocellulose 26062-01-1 27136-15-8, Butyl acrylate-methyl methacrylate-styrene copolymer 28430-58-2, Methacrylic acid-methyl methacrylate-vinyl acetate copolymer 29012-39-3D, Glycerol-phthalic acid copolymer, castor oil-modified
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(coatings; pigment-dispersing resins for use in)

IT 27102-65-4D, Pentaerythritol-phthalic acid copolymer, soybean oil-modified
RL: TEM (Technical or engineered material use); USES (Uses)
(coatings; pigment-dispersing resins for use in)

IT 160770-30-9P 160770-31-0P 160770-32-1P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dispersants; for pigments in coating compns.)

IT 9003-08-1, Melan 28
RL: TEM (Technical or engineered material use); USES (Uses)
(pigment-dispersing resins for use in coatings contg.)

IT 26062-01-1
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(coatings; pigment-dispersing resins for use in)

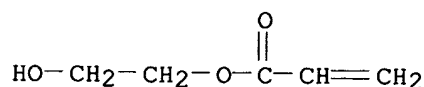
RN 26062-01-1 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, 2-hydroxyethyl 2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 818-61-1

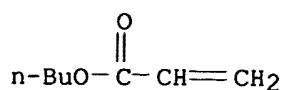
CMF C5 H8 O3



CM 2

CRN 141-32-2

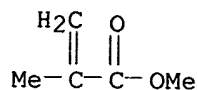
CMF C7 H12 O2



CM 3

CRN 80-62-6

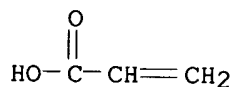
CMF C5 H8 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



IT 160770-30-9P 160770-31-0P 160770-32-1P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dispersants; for pigments in coating compns.)

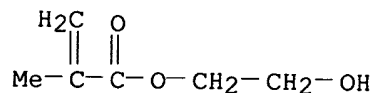
RN 160770-30-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with dodecyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

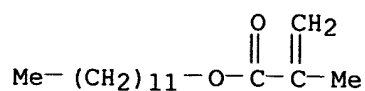
CMF C6 H10 O3



CM 2

CRN 142-90-5

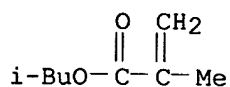
CMF C16 H30 O2



CM 3

CRN 97-86-9

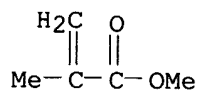
CMF C8 H14 O2



CM 4

CRN 80-62-6

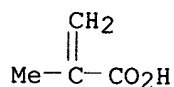
CMF C5 H8 O2



CM 5

CRN 79-41-4

CMF C4 H6 O2



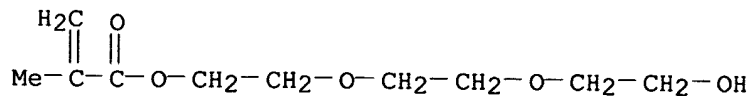
RN 160770-31-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with
2-[2-(2-hydroxyethoxy)ethoxy]ethyl 2-methyl-2-propenoate, methyl
2-methyl-2-propenoate, octyl 2-methyl-2-propenoate and 2-propenamide (9CI)
(CA INDEX NAME)

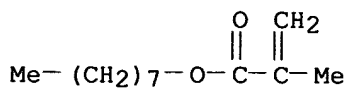
CM 1

CRN 2351-42-0

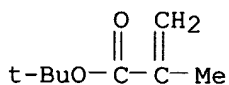
CMF C10 H18 O5



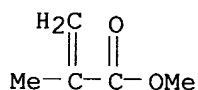
CM 2

CRN 2157-01-9
CMF C12 H22 O2

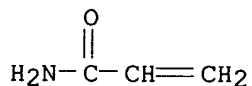
CM 3

CRN 585-07-9
CMF C8 H14 O2

CM 4

CRN 80-62-6
CMF C5 H8 O2

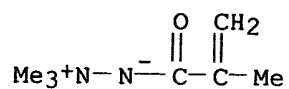
CM 5

CRN 79-06-1
CMF C3 H5 N O

RN 160770-32-1 HCAPLUS
CN Hydrazinium, 1,1,1-trimethyl-2-(2-methyl-1-oxo-2-propenyl)-, inner salt, polymer with cyclohexyl 2-methyl-2-propenoate, ethenylbenzene, 2,5-furandione, 2-(2-hydroxyethoxy)ethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and octyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

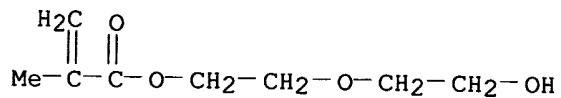
CRN 16898-44-5
CMF C7 H14 N2 O



CM 2

CRN 2351-43-1

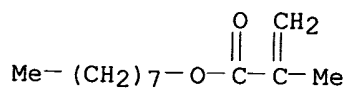
CMF C8 H14 O4



CM 3

CRN 2157-01-9

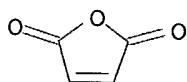
CMF C12 H22 O2



CM 4

CRN 108-31-6

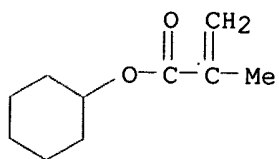
CMF C4 H2 O3



CM 5

CRN 101-43-9

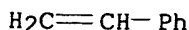
CMF C10 H16 O2



CM 6

CRN 100-42-5

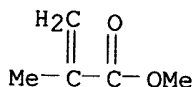
CMF C8 H8



CM 7

CRN 80-62-6

CMF C5 H8 O2



L23 ANSWER 50 OF 55 HCAPLUS COPYRIGHT 2002 ACS
 AN 1985:525138 HCAPLUS
 DN 103:125138
 TI Low temperature cure coating system suitable for metal and plastic substrates
 IN Rehfuß, John W.; Hazelwood, Louis S.; Price, Martin B.; Zilke, Robert W., Jr.
 PA Reliance Universal, Inc., USA
 SO U.S., 6 pp. Cont. of U.S. Ser. No. 470,782 abandoned.
 CODEN: USXXAM
 DT Patent
 LA English
 IC ICM B32B027-36
 NCL 428412000
 CC 42-7 (Coatings, Inks, and Related Products)
 Section cross-reference(s): 38, 55, 56
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4521489	A	19850604	US 1984-619699	19840613
PRAI	US 1982-348604		19820212		
	US 1983-470782		19830301		

AB Coating systems for plastics and metals comprise primers contg. nonacid-catalyzed thermoplastic polymers with min. film-forming temps. (MFFT) 10-55.degree. C and top coatings contg. 52-78.5% aq. dispersions of polymers from functional and nonfunctional group-contg. monomers, 1.5-8% nonionic surfactants for stability of the dispersion at pH 1.0-10, and 20-40% substituted amides (optionally alkoxylated or etherified) or their mixts. with highly alkylated polymeric methoxymethylated substituted amines (optionally alkoxylated or etherified). Thus, a slurry contg. water 36, Bu Carbitol 12, iso-PrOH 12, poly(vinyl pyrrolidone) 21, and amphoteric sulfonated surfactants 6, ethoxylated octylphenol(I, ethylene oxide content 40 mols.) 2, deformer 4, SiO2 88, TiO2 20, methoxymethylurea [9011-05-6] 107, and org. wax 12 g was mixed with sufficient water for proper grinding viscosity, stirred 10 min to effect a 6+ Hegman grind, and letdown with 400 g 40% solids copolymer (II) [97972-64-0] emulsion prep'd. from acrylamide 26, methacrylic acid 11, styrene 49, Me methacrylate 50, Bu methacrylate 180, hydroxyethyl methacrylate 21, and Et acrylate 37 g in the presence of methoxylated nonylphenyl (ethylene oxide content 6 and 40 mols). This compn. was neutralized with 2 g dimethylethanolamine, and mixed with 70% p-toluenesulfonic acid to pH

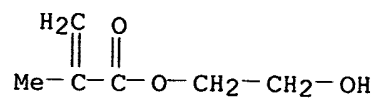
1.5-2.5 to give a top coating **compn.** Steel, Al, polyester, Lexan polycarbonate, Noryl [52439-05-1], polystyrene [9003-53-6], and ABS polymer [9003-56-9] were primed with a **compn.** contg. 185 g mixt. (MFFT 45.degree. C) of 2 acrylic polymer emulsions, 50 g glycol ether, 2 g NH4OBz, 23 g water and a **pigment** slurry contg. Bu Cellosolve 30, water-solubilized emulsions (MFFT 20-30.degree. C) 26, 23% aq. NH3 1, amine 1, alk.-neutralized maleic anhydride-isobutylene adduct 6, ethoxylated I (ethylene oxide content 9-40 mols.) 4, defoamer 2, ZnO 9, TiO2 140, Zn molybdate 35, mica 17, Mg silicate 23, SiO2 16, and acrylic polymer emulsions (MFFT 47-57.degree. C) 350 g, air-dried 15 mins., baked 5 min at 150.degree. F, overcoated with the II topcoating **compn** .., and baked 30 mins at 150.degree. F to give a 1.5-mil topcoating with Gardner 60.degree. gloss 17, Eagle pencil hardness H, Gardner direct impact strength 80 in.-lbs, elongation 4.5% on a 1/in. conical mandril, and 1,1,1-trichloroethane resistance 50 double rubs.

- ST acrylic dispersion coating metal plastic; plastic substrate acrylic dispersion coating; steel acrylic dispersion coating; aluminum acrylic dispersion coating; polyester substrate acrylic dispersion coating; polycarbonate substrate acrylic dispersion coating; Noryl substrate acrylic dispersion coating; polystyrene substrate acrylic dispersion coating; ABS substrate acrylic dispersion coating
- IT Polycarbonates
Polyesters, uses and miscellaneous
Polyoxyphenylenes
RL: USES (Uses)
(coatings for, low-temp.-curing acrylic polymer aq. dispersions as)
- IT Crosslinking agents
(methoxymethylurea and formaldehyde-melamine resin, for acrylic polymer aq. dispersion coatings, for plastics and metals)
- IT Coating materials
(water-thinned, acrylic polymer, low-temp.-curing, for plastics and metals)
- IT 7429-90-5, uses and miscellaneous 9003-53-6 9003-56-9 52439-05-1
RL: USES (Uses)
(coatings for, low-temp.-curing acrylic polymer aq. dispersions as)
- IT 9011-05-6
RL: MOA (Modifier or additive use); USES (Uses)
(crosslinking agents, for acrylic polymer aq. dispersion coatings for plastics and metals)
- IT 97972-63-9P 97972-64-0P
RL: PREP (Preparation)
(manuf. of, for low-temp.-curing aq. dispersion coatings for plastics and metals)
- IT 97972-63-9P 97972-64-0P
RL: PREP (Preparation)
(manuf. of, for low-temp.-curing aq. dispersion coatings for plastics and metals)
- RN 97972-63-9 HCAPLUS
- CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ethenylbenzene, ethyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

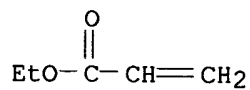
CMF C6 H10 O3



CM 2

CRN 140-88-5

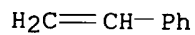
CMF C5 H8 O2



CM 3

CRN 100-42-5

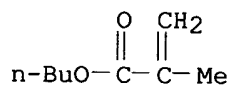
CMF C8 H8



CM 4

CRN 97-88-1

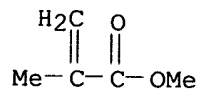
CMF C8 H14 O2



CM 5

CRN 80-62-6

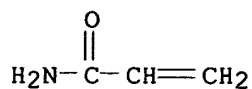
CMF C5 H8 O2



CM 6

CRN 79-06-1

CMF C3 H5 N O



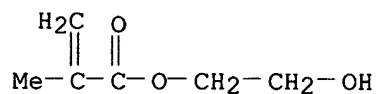
RN 97972-64-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, ethyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

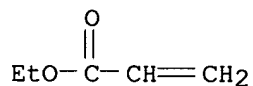
CMF C6 H10 O3



CM 2

CRN 140-88-5

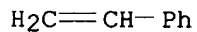
CMF C5 H8 O2



CM 3

CRN 100-42-5

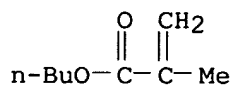
CMF C8 H8



CM 4

CRN 97-88-1

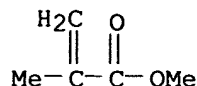
CMF C8 H14 O2



CM 5

CRN 80-62-6

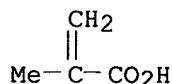
CMF C5 H8 O2



CM 6

CRN 79-41-4

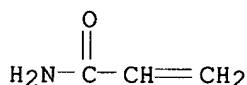
CMF C4 H6 O2



CM 7

CRN 79-06-1

CMF C3 H5 N O



L23 ANSWER 51 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1985:506406 HCAPLUS

DN 103:106406

TI Aqueous coating **composition** comprising a dispersion of polymerized unsaturated monomers, a nonionic surfactant and crosslinking agent

IN Rehfuss, John W.; Hazelwood, Louis S.; Price, Martin B.

PA Reliance Universal, Inc., USA

SO U.S., 6 pp. Cont. of U.S. Ser. No. 469,417 abandoned.

CODEN: USXXAM

DT Patent

LA English

IC ICM C08L061-28

NCL 524512000

CC 42-7 (Coatings, Inks, and Related Products)

Section cross-reference(s): 38, 55, 56

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	US 4524173	A	19850618	US 1984-633083	19840724
PRAI	US 1982-348286		19820212		
	US 1983-469417		19830224		

AB Coating **compsns.**, curable by strong acids at low temps., for metals and plastics contain 52-78.5% aq. dispersions of polymers from functional and nonfunctional group-contg. monomers, 1.5-8% nonionic surfactants for stability of the dispersion at pH 1.0-10, and 20-40% substituted amides (optionally alkoxyated or etherified) or their mixts.

with highly alkylated polymeric methoxymethylated substituted amines (optionally alkoxyated or etherified). Thus, a slurry contg. water 36, Bu Carbitol 12, iso-PrOH 6, poly(vinylpyrrolidone) 21, amphoteric sulfonated surfactant 6, polyethylene glycol octylphenyl ether [9036-19-5] emulsifier (d.p. 40) 2, defoamer 4, SiO₂ 88, TiO₂ 20, and methoxymethylurea [13824-21-0] 107 g was mixed with 400 g 40% solids copolymer [97972-64-0] emulsion prepd. from acrylamide 26, methacrylic acid 11, styrene 49, Me methacrylate 50, Bu methacrylate 180, hydroxyethyl methacrylate 21, and Et acrylate 37 g in the presence of polyethylene glycol nonylphenyl ether [9016-45-9] emulsifier (ethylene oxide content 6 and 40 mols). This **compn.** was neutralized with 2 g dimethylethanolamine, mixed with 70% p-toluenesulfonic acid to pH 1.5-2.5, applied to steel, Al, polyester, Lexan polycarbonate, Noryl [52439-05-1], polystyrene [9003-53-6], and ABS polymer [9003-56-9] substrates, primed with a **pigmented** acrylic polymer emulsion, and baked 30 min at 150.degree.F to give a 1.5-mil topcoating which exhibited Gardner direct impact 80 in.-lb, 4.5% elongation using a 1/8-in. conical mandrel, and 1,1,1-trichloroethane resistance 50 double rubs.

- ST acrylic dispersion coating plastic metal; plastic substrate acrylic dispersion coating; polyoxyethylene alkylphenyl emulsifier acrylic coating; methoxymethylurea crosslinker acrylic dispersion coating; steel acrylic dispersion coating; aluminum acrylic dispersion coating; polyester substrate acrylic dispersion coating; polycarbonate substrate acrylic dispersion coating; polyoxyphenylene substrate acrylic dispersion coating; polystyrene substrate acrylic dispersion coating; ABS substrate acrylic dispersion coating
- IT Polycarbonates
Polyesters, uses and miscellaneous
Polyoxyphenylenes
RL: USES (Uses)
(coatings for, acrylic polymer aq. dispersions contg. nonionic emulsifiers and amide crosslinkers as)
- IT Crosslinking agents
(methoxymethylurea and melamine-urea resin, for acrylic polymer aq. dispersion coatings, for plastics and metals)
- IT Emulsifying agents
(nonionic, for acrylic polymer aq. dispersion coatings contg. amide crosslinkers, for plastics and metals)
- IT Coating materials
(water-thinned, acrylic polymers, contg. nonionic emulsifiers and amide crosslinkers, for plastics and metals)
- IT 7429-90-5, uses and miscellaneous 9003-53-6 9003-56-9 52439-05-1
RL: USES (Uses)
(coatings for, acrylic polymer aq. dispersions contg. nonionic emulsifiers and amide crosslinkers as)
- IT 13824-21-0
RL: USES (Uses)
(crosslinkers, for acrylic polymer aq. dispersion coatings, for plastics and metals)
- IT 9016-45-9 9036-19-5
RL: USES (Uses)
(emulsifiers, for acrylic polymer aq. dispersion coatings contg. amide crosslinkers, for plastics and metals)
- IT 97972-63-9P 97972-64-0P
RL: PREP (Preparation)
(manuf. of, for aq. dispersion coatings contg. nonionic emulsifiers and amide crosslinkers, for plastics and metals)
- IT 97972-63-9P 97972-64-0P
RL: PREP (Preparation)
(manuf. of, for aq. dispersion coatings contg. nonionic emulsifiers and

amide crosslinkers, for plastics and metals)

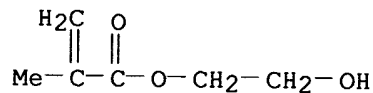
RN 97972-63-9 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ethenylbenzene, ethyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

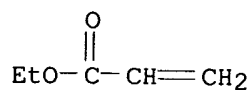
CMF C6 H10 O3



CM 2

CRN 140-88-5

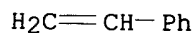
CMF C5 H8 O2



CM 3

CRN 100-42-5

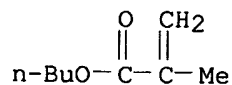
CMF C8 H8



CM 4

CRN 97-88-1

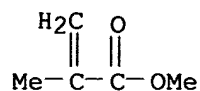
CMF C8 H14 O2



CM 5

CRN 80-62-6

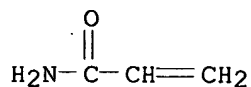
CMF C5 H8 O2



CM 6

CRN 79-06-1

CMF C3 H5 N O



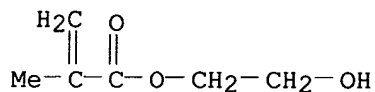
RN 97972-64-0 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, ethenylbenzene, ethyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-propenamide (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

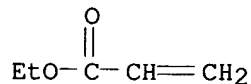
CMF C6 H10 O3



CM 2

CRN 140-88-5

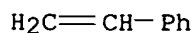
CMF C5 H8 O2



CM 3

CRN 100-42-5

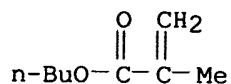
CMF C8 H8



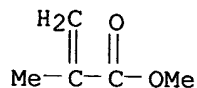
CM 4

CRN 97-88-1

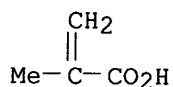
CMF C8 H14 O2



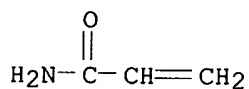
CM 5

CRN 80-62-6
CMF C5 H8 O2

CM 6

CRN 79-41-4
CMF C4 H6 O2

CM 7

CRN 79-06-1
CMF C3 H5 N O

L23 ANSWER 52 OF 55 HCAPLUS COPYRIGHT 2002 ACS
AN 1982:53954 HCAPLUS
DN 96:53954
TI Graft copolymer, a coating **composition** comprising it and
electrocoating such **compositions**
IN Hazan, Isidor
PA du Pont de Nemours, E. I., and Co. , USA
SO Eur. Pat. Appl., 40 pp.
CODEN: EPXXDW
DT Patent
LA English
IC C08F008-02; C09D003-81; C09D005-40; C25D013-06
CC 42-7 (Coatings, Inks, and Related Products)
Section cross-reference(s): 55, 56
FAN.CNT 6

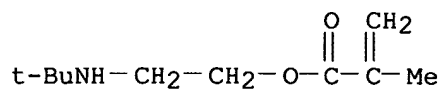
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	EP 32570	A2	19810729	EP 1980-108057	19801219
	EP 32570	A3	19811230		
	R: AT, BE, DE, FR, GB, IT, NL, SE				
	BR 8008248	A	19810721	BR 1980-8248	19801217
	AU 8065606	A1	19810625	AU 1980-65606	19801219
	JP 56098237	A2	19810807	JP 1980-181824	19801220
	US 4340523	A	19820720	US 1980-220957	19801229
PRAI	US 1979-106254		19791221		
	US 1979-106255		19791221		
	US 1979-106256		19791221		
	US 1979-106257		19791221		
	US 1979-106258		19791221		
	US 1979-106259		19791221		
AB	Compns. , which can be cathodically coated at neutral pH on metals, have good crosslinking response at 150-75.degree. and contain a glycidyl ester-grafted acrylic polyamine copolymer with amine and hydroxy functionality, another codispersed polymer, and, optionally, auxiliary resins and crosslinkers. Thus, 860 parts of dispersion contg. Cymel 1125 99.92, lactic acid (I) 85% 6.59, water 514.26, 440.5:176.20 (wt. ratio) DER 661-nonylphenol reaction product 136.70, and 264.92:137.70:53.70:125.30 (wt. ratio) tert-butylaminoethyl methacrylate (II)-Cardura E 10-Et acrylate (III)-hydroxyethyl methacrylate (IV) graft copolymer [80516-44-5] 102.53 parts and 105.00 parts pigment paste contg. 264.92:53.50:125.30 (wt. ratio) II-III-IV copolymer [71957-58-9] (prepd. in the presence of HSCH ₂ CH ₂ OH) 16.45, EtO(CH ₂) ₂ OH 4.03, I (85%) 3.03, water 24.74, Mg silicate 20.85, Pb silicochromate 10.79, Pb silicate 22.80, and carbon black 2.32 parts are mixed with 880.00 parts water to give an electrophoretic primer compn. with throwing power 35.5-38 cm at 350-400 V for cold-rolled or phosphated steel.				
ST	electrophoretic coating glycidyl ester copolymer; acrylic polyamine copolymer electrophoretic coating; epoxy nonphenyl adduct electrophoretic coating; steel cathodic electrophoretic coating				
IT	Coating materials				
	(electrophoretic, glycidyl-grafted acrylic polyamine copolymer-based)				
IT	12597-71-6, uses and miscellaneous				
	RL: USES (Uses)				
	(coatings for, electrophoretic, glycidyl ester-grafted acrylic polyamine copolymer-based)				
IT	25068-38-6D, reaction products with nonylphenol 25154-52-3D, reaction products with epoxy resins				
	RL: TEM (Technical or engineered material use); USES (Uses)				
	(coatings, electrophoretic, contg. glycidyl ester-grafted acrylic polyamine copolymers)				
IT	71957-58-9				
	RL: TEM (Technical or engineered material use); USES (Uses)				
	(coatings, electrophoretic, contg. glycidyl ester-grafted polyamine copolymers)				
IT	80516-43-4				
	RL: USES (Uses)				
	(graft, coatings, electrophoretic)				
IT	79509-39-0P 80516-42-3P 80516-44-5P				
	RL: PREP (Preparation)				
	(manuf. of, for electrophoretic coating)				
IT	79509-39-0P 80516-42-3P 80516-44-5P				
	RL: PREP (Preparation)				
	(manuf. of, for electrophoretic coating)				
RN	79509-39-0 HCAPLUS				

CN 2-Propenoic acid, 2-methyl-, 2-[(1,1-dimethylethyl)amino]ethyl ester,
polymer with 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 3775-90-4

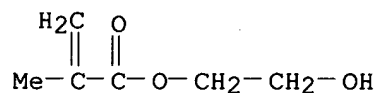
CMF C10 H19 N O2



CM 2

CRN 868-77-9

CMF C6 H10 O3



RN 80516-42-3 HCAPLUS

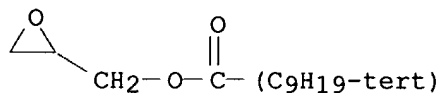
CN tert-Decanoic acid, oxiranylmethyl ester, polymer with
2-[(1,1-dimethylethyl)amino]ethyl 2-methyl-2-propenoate and 2-hydroxyethyl
2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 71206-09-2

CMF C13 H24 O3

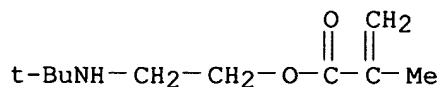
CCI IDS



CM 2

CRN 3775-90-4

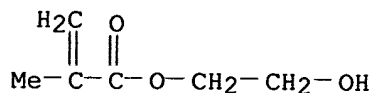
CMF C10 H19 N O2



CM 3

CRN 868-77-9

CMF C6 H10 O3



RN 80516-44-5 HCAPLUS

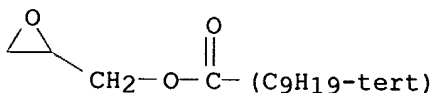
CN tert-Decanoic acid, oxiranylmethyl ester, polymer with
2-[(1,1-dimethylethyl)amino]ethyl 2-methyl-2-propenoate, ethyl
2-propenoate and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX
NAME)

CM 1

CRN 71206-09-2

CMF C13 H24 O3

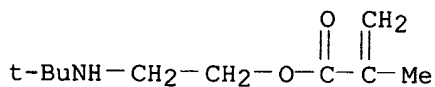
CCI IDS



CM 2

CRN 3775-90-4

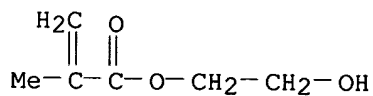
CMF C10 H19 N O2



CM 3

CRN 868-77-9

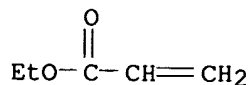
CMF C6 H10 O3



CM 4

CRN 140-88-5

CMF C5 H8 O2



L23 ANSWER 53 OF 55 HCAPLUS COPYRIGHT 2002 ACS
AN 1979:493151 HCAPLUS
DN 91:93151
TI Metallic coating of steel plates
IN Tanaka, Shoichi
PA Kansai Paint Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC C09D005-38
CC 42-10 (Coatings, Inks, and Related Products)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	JP 54046235	A2	19790412	JP 1977-112949	19770920
	JP 60034590	B4	19850809		
AB	Substrates are coated with compns. contg. melamine-formaldehyde copolymer (I) [9003-08-1], thermosetting resins, and powd. metal and top coated with surfactant-contg. thermosetting resin compns. having a surface tension at least 0.5 dyne/cm lower than that of the previous coatings to prevent crack formation during drying. Thus, a primed steel plate was coated with a compn. (surface tension 27.6 dyne/cm) contg. 50% solids 2:20:20:13:15:30 acrylic acid-Bu methacrylate-Et acrylate-2-ethylhexyl acrylate-2-hydroxyethyl methacrylate-Me methacrylate copolymer [71166-37-5] soln. 160, 50% solids I soln. 40, powd. Al 12, yellow pigment 0.01, carbon black 0.005, PhMe 40, petroleum solvent 30, BuOAc 20, and BuOH 10 parts, left 3 min, and top coated with a compn. (surface tension 26.5 dyne/cm) contg. 50% solids 2:30:23:15:30 acrylic acid-Bu methacrylate-2-ethylhexyl methacrylate-2-hydroxyethyl methacrylate-styrene copolymer [55774-94-2] soln. 140, 60% solids I soln. 50, petroleum solvent 90, BuOH 10, and fluorine-contg. surfactant 0.01 part. When the fluorine-contg. surfactant was omitted, a similar top coating compn. had surface tension 28.5 dyne/cm and formed cracks during drying.				
ST	metallic coating compn ; acrylic polymer coating steel; melamine resin coating steel; surface tension coating compn ; crack prevention coating steel; surfactant top coating steel				
IT	Coating materials (acrylic polymer-melamine resins, metallic, prevention of crack formation during drying of, on steel)				
IT	Surfactants (fluorine-contg., acrylic polymer-melamine resin coatings contg., for prevention of crack formation during drying on steel)				
IT	9003-08-1P RL: TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (coatings, metallic, contg. acrylic polymers, crack prevention during drying of, on steel)				
IT	55774-94-2P 63747-55-7P 71166-37-5P 71216-97-2P RL: TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (coatings, metallic, contg. melamine-formaldehyde polymers, crack prevention during drying of, on steel)				
IT	55774-94-2P 63747-55-7P 71166-37-5P 71216-97-2P				

RL: TEM (Technical or engineered material use); PREP (Preparation)
; USES (Uses)

(coatings, metallic, contg. melamine-formaldehyde polymers, crack
prevention during drying of, on steel)

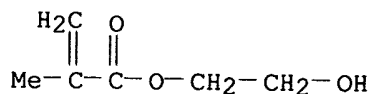
RN 55774-94-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ethenylbenzene,
2-ethylhexyl 2-methyl-2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate
and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

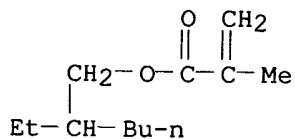
CMF C6 H10 O3



CM 2

CRN 688-84-6

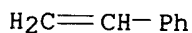
CMF C12 H22 O2



CM 3

CRN 100-42-5

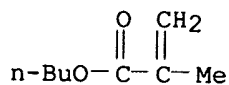
CMF C8 H8



CM 4

CRN 97-88-1

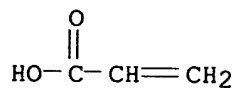
CMF C8 H14 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



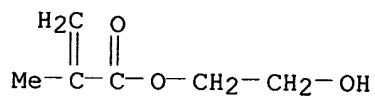
RN 63747-55-7 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

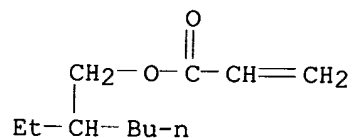
CMF C6 H10 O3



CM 2

CRN 103-11-7

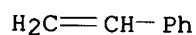
CMF C11 H20 O2



CM 3

CRN 100-42-5

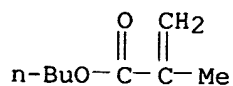
CMF C8 H8



CM 4

CRN 97-88-1

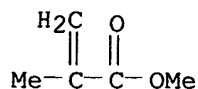
CMF C8 H14 O2



CM 5

CRN 80-62-6

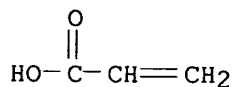
CMF C5 H8 O2



CM 6

CRN 79-10-7

CMF C3 H4 O2



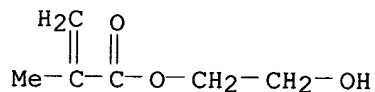
RN 71166-37-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, butyl ester, polymer with 2-ethylhexyl
2-propenoate, ethyl 2-propenoate, 2-hydroxyethyl 2-methyl-2-propenoate,
methyl 2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

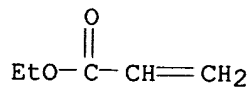
CMF C6 H10 O3



CM 2

CRN 140-88-5

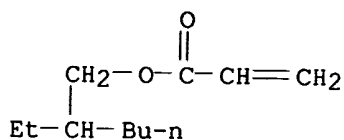
CMF C5 H8 O2



CM 3

CRN 103-11-7

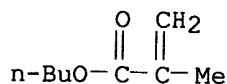
CMF C11 H20 O2



CM 4

CRN 97-88-1

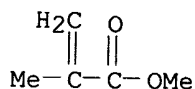
CMF C8 H14 O2



CM 5

CRN 80-62-6

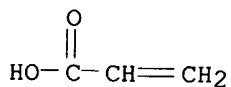
CMF C5 H8 O2



CM 6

CRN 79-10-7

CMF C3 H4 O2



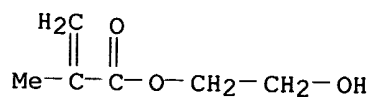
RN 71216-97-2 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-ethylhexyl ester, polymer with
ethenylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, 2-methylpropyl
2-methyl-2-propenoate and 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 868-77-9

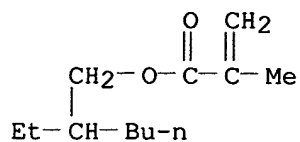
CMF C6 H10 O3



CM 2

CRN 688-84-6

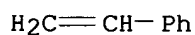
CMF C12 H22 O2



CM 3

CRN 100-42-5

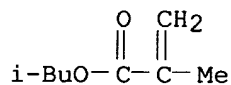
CMF C8 H8



CM 4

CRN 97-86-9

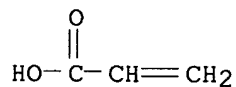
CMF C8 H14 O2



CM 5

CRN 79-10-7

CMF C3 H4 O2



L23 ANSWER 54 OF 55 HCAPLUS COPYRIGHT 2002 ACS
AN 1978:63378 HCAPLUS
DN 88:63378
TI Pigment dispersions for thermosetting coatings
IN Takahashi, Mitsuru; Matsumoto, Hideo
PA Nippon Paint Co., Ltd., Japan
SO Japan. Kokai, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC C09D003-727

KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

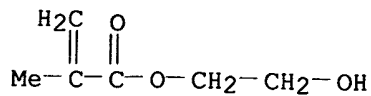
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 52091034	A2	19770801	JP 1976-8060	19760127
	JP 59017721	B4	19840423		
AB	Crelan L/Ue 6107-2-hydroxyethyl methacrylate-iso-Bu methacrylate-methacrylic acid-Me methacrylate-styrene copolymer (I) [65217-17-6] or a similar copolymer was prepd. in the presence of a suspension stabilizer such as a cationic starch deriv. and gelatin and used to prep. pigment dispersions. Thus, 30 parts mixt. prepd. from Me methacrylate 33, styrene 16, iso-Bu methacrylate 16, and 2-hydroxyethyl methacrylate 25 parts was mixed with methacrylic acid 0.5, Crelan L/Ue 6107 (II) (a blocked isocyanate resin) 15, and a cyanine blue pigment 5 parts, milled, mixed (33 parts) with dibutyltin dilaurate 0.5, I 17, tert-Cl ₂ H ₂ SH 2.2, and 2,2'-azobis-2,4-dimethylvaleronitrile 2 parts, stirred, mixed with 400 parts 4% aq. gelatin, polymd. at 70.degree. for 5 h, adjusted to H ion concn. 8, mixed with 160 mg protein decomp. enzyme, heated at 50.degree. for 2 h, filtered to give a pigment compn. , sprayed on steel, and baked at 160.degree. for 20 min to form a I coating.				
ST	suspension stabilizer gelatin; cationic starch suspension stabilizer				
IT	Coating materials (blocked isocyanates-hydroxyethyl methacrylate-iso-Bu methacrylate-methacrylic acid-Me methacrylate-styrene copolymer)				
IT	Dispersing agents (cationic starch derivs., for polymn. of carboxylic acids with acrylic esters and glycols)				
IT	Gelatins, uses and miscellaneous RL: USES (Uses) (suspension stabilizers, for polymn. of blocked isocyanates with hydroxyethyl methacrylate and iso-Bu methacrylate and methacrylic acid and Me methacrylate and styrene)				
IT	Polymerization (suspension, of blocked isocyanates with hydroxyethyl methacrylate and iso-Bu methacrylate and methacrylic acid and Me methacrylate and styrene, stabilizers for)				
IT	65217-09-6P 65217-17-6P 65217-18-7P			65366-18-9P	
	RL: PREP (Preparation) (manuf. of, suspension stabilizers for)				
IT	9005-25-8D, cationic, derivs.		9049-76-7		
	RL: USES (Uses) (suspension stabilizers, for polymn. of carboxylic acids with acrylic esters and glycols)				
IT	65217-17-6P 65217-18-7P				
	RL: PREP (Preparation) (manuf. of, suspension stabilizers for)				
RN	65217-17-6 HCAPLUS				
CN	2-Propenoic acid, 2-methyl-, polymer with Crelan L/Ue 6107, ethenylbenzene, 2-hydroxyethyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and 2-methylpropyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)				
CM	1				
CRN	57486-27-8				
CMF	Unspecified				
CCI	PMS, MAN				

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 868-77-9

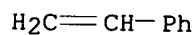
CMF C6 H10 O3



CM 3

CRN 100-42-5

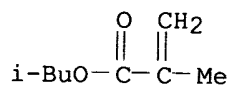
CMF C8 H8



CM 4

CRN 97-86-9

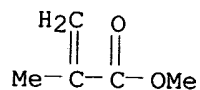
CMF C8 H14 O2



CM 5

CRN 80-62-6

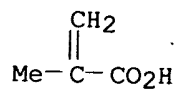
CMF C5 H8 O2



CM 6

CRN 79-41-4

CMF C4 H6 O2



RN 65217-18-7 HCAPLUS

CN 1,3-Benzenedicarboxylic acid, polymer with butyl 2-methyl-2-propenoate,

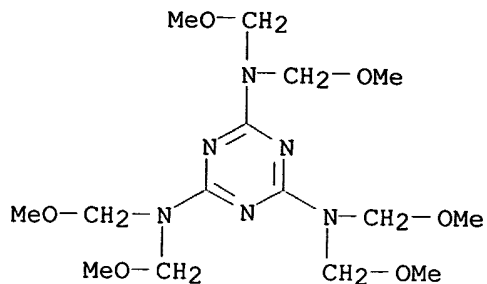
KATHLEEN FULLER EIC 1700/LAW LIBRARY 308-4290

2,2-dimethyl-1,3-propanediol, ethenylbenzene, 2-ethyl-2-(hydroxymethyl)-1,3-propanediol, N,N,N',N',N'',N''-hexakis(methoxymethyl)-1,3,5-triazine-2,4,6-triamine, hexanedioic acid, 2-hydroxyethyl 2-methyl-2-propenoate, mercaptoacetic acid and methyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 3089-11-0

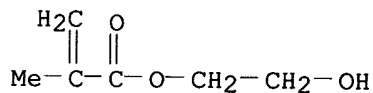
CMF C15 H30 N6 O6



CM 2

CRN 868-77-9

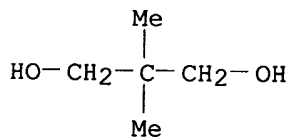
CMF C6 H10 O3



CM 3

CRN 126-30-7

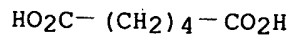
CMF C5 H12 O2



CM 4

CRN 124-04-9

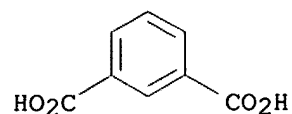
CMF C6 H10 O4



CM 5

CRN 121-91-5

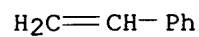
CMF C8 H6 O4



CM 6

CRN 100-42-5

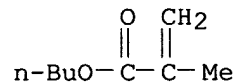
CMF C8 H8



CM 7

CRN 97-88-1

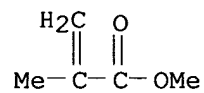
CMF C8 H14 O2



CM 8

CRN 80-62-6

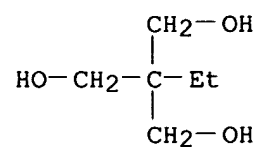
CMF C5 H8 O2



CM 9

CRN 77-99-6

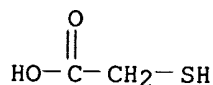
CMF C6 H14 O3



CM 10

CRN 68-11-1

CMF C2 H4 O2 S



L23 ANSWER 55 OF 55 HCAPLUS COPYRIGHT 2002 ACS

AN 1976:579137 HCAPLUS

DN 85:179137

TI Aqueous coating **composition**

IN Marx, Matthias; Diefenbach, Horst

PA BASF A.-G., Ger.

SO Ger. Offen., 14 pp.

CODEN: GWXXBX

DT Patent

LA German

IC C09D003-80

CC 42-7 (Coatings, Inks, and Related Products)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 2507884	A1	19760902	DE 1975-2507884	19750224
	DE 2507884	B2	19810205		
	NL 7601649	A	19760826	NL 1976-1649	19760218
	GB 1530022	A	19781025	GB 1976-6985	19760223
	AT 349586	B	19790410	AT 1976-1266	19760223
	FR 2301575	A1	19760917	FR 1976-5020	19760224
	FR 2301575	B1	19800509		
PRAI	DE 1975-2507842		19750224		
	DE 1975-2507884		19750224		
	GB 1976-6984		19760223		
AB	The title compns. , free of dispersants, essentially free of org. solvents, and contg. 20-80% solids, contain NH3- or amine-neutralized CO2H-contg. polymers, pigments or fillers, and, optionally, crosslinking agents. Thus, a mixt. of 50% BuOH soln. of 6:20:14:50:55 acrylic acid-N-(butoxymethyl)methacrylamide-ethyl acrylate-hydroxypropyl acrylate-methyl methacrylate copolymer [60766-06-5] 1000, Me2NCH2CH2OH 10, and TiO2 500 parts was ball-milled, and BuOH was distd. azeotropically at 94-8.degree. to give a 40% solids dispersion, viscosity 230 cP. Spraying this compn. on degreased, unprimed, deep-drawing sheet and baking 30 min at 150.degree. gives a highly glossy, hard, elastic coating.				
ST	acrylic coating aq dispersion; methacrylate copolymer coating; butoxymethylmethacrylamide copolymer coating; hydroxypropyl acrylate copolymer coating				
IT	Coating materials				
	(acrylic, aq. dispersions of, manuf of)				
IT	52522-02-8P 60766-06-5P				
	RL: TEM (Technical or engineered material use); PREP (Preparation)				
	; USES (Uses)				
	(coatings, aq. dispersions, manuf. of)				
IT	60766-06-5P				

RL: TEM (Technical or engineered material use); PREP (Preparation)
; USES (Uses)

(coatings, aq. dispersions, manuf. of)

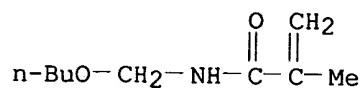
RN 60766-06-5 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, methyl ester, polymer with
N-(butoxymethyl)-2-methyl-2-propenamide, ethyl 2-propenoate,
1,2-propanediol mono-2-propenoate and 2-propenoic acid (9CI) (CA INDEX
NAME)

CM 1

CRN 5153-77-5

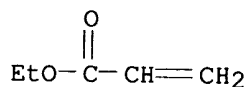
CMF C9 H17 N O2



CM 2

CRN 140-88-5

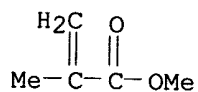
CMF C5 H8 O2



CM 3

CRN 80-62-6

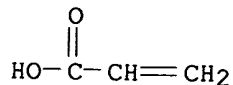
CMF C5 H8 O2



CM 4

CRN 79-10-7

CMF C3 H4 O2



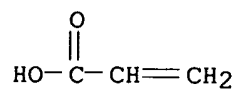
CM 5

CRN 25584-83-2

CMF C6 H10 O3
CCI IDS

CM 6

CRN 79-10-7
CMF C3 H4 O2



CM 7

CRN 57-55-6
CMF C3 H8 O2

